# APPENDIX II TAB K

00001		
1	IN THE UNITE	O STATES DISTRICT COURT
		DISTRICT OF PENNSYLVANIA
2		TION NO. 4:04-CV-2688
. 3		
-	TANNY J. KITZMILLER:	L
	BRYAM REHM, CHAISTY REHM	. [
1	DEBORAH F. FENIMORE;	·; ;
-		NIPRIA - I
,	JOEL A. LIEB; STEVEN STO	
_	BETH A BYELAND; CYNTHIA	Į
•	SMEATH; JULIE SMITH;	
	ARALEME D. CALLAHAM	) DBPOSITION
7	("BARRIE"); FREDERICK B.	
	CALLAKAN,	) QF
Ð		)
		) MARREN
9	Plaintiffe	i, )
		) <b>3.</b>
10	7S-	)
		) NORD,
11	DOVER AREA SCHOOL DISTRI	CT: )
	DOVER AREA SCHOOL DISTRE	CT ) 7H.D.
12	BOARD OF DIRECTORS.	i
	,	i ·
11		i
- •	Defendants	s. i
14		
15	APE	PEARANCES
16	For the Plaintiffs:	Mr. Alfred 9. Wilcox
	TOT THE TIMESTER.	PEPPER HANILTON, L.L.P.
17		3000 Two Logan Square
•		Eighteenth and Arch Streets
18		Philadelphia, PA 19103-2799
19		1711500110101 tw 17107.8133
13	For the Defendants:	Mr. Patrick Gillen
20	tor the nerendants:	THOMAS MORE LAW CENTER
20		F. O. Box 393
31		Ann Arbor, MJ 48106
33		
23	#- #11 will we -	
24		
	June 7, 2005	Rebecca R. LeCsair, CVR

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PAGE 3

Decorporate Stipulations

1 Stipulations

2 said case at which said deposition might be used, except

3 that an objection as to the form of a question must be made

4 at the time such question is asked, or objection is waived

5 as to the form of the question.

6 (5; That the witness reserves the right to read

7 and sign the deposition prior to filing.

8 (6) That the sealed original transcript of this

9 deposition shall be mailed first-class postage or

10 mand-delivered to the party taking the deposition for

11 preservation and delivery to the Court, if and when

12 preservation and delivery to the Court, if and when

13 preservation

14 preservation

15 preservation

16 preservation

17 preservation

18 preservation

19 Whereupon,

20 WARREN A. NCRE, PK.D.

21 baving been first duly sworn,

22 was examined and testified

23 as follows:

24
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	Wa & <del></del>
00002	
1	Stipulations -2-
	STIPULATIONS
2 3	It is bereby stipulated and agreed between the
3	parties to this action, through their respective counsel of
4	record:
5	<ol> <li>That the deposition of WARREN A. NORD, PH.D.,</li> </ol>
6	may be taken on June 7th, 2005, beginning at 9:07 A.M., at
7	the University of North Carolina at Chapel Hill, Program in
8	the Humanities and Kuman Values, located at 1700 Alrport
9	Road, Room L-03, Chapel Hill, North Carolina, before
10	
11	(2) That the deposition shall be taker and used as
12	permitted by the applicable Federal Rules of Civil 💎
13	Procedure, and formal opening is hereby waived.
16	(3) That any objections of any party hereto as to
15	notice of the taking of said deposition or as to the time
16.	
17	before whom the same shall be taken, are deemed to have
18	been met.
19	(4) Objections to questions and motions to str(ke
20	answers need not be made during the taking of this
21	deposition, but may be made for the first time during the
22	progress of the crial of this case, or at any pretrial
23	hearing beld before any judge of competent jurisdiction for
34	the purpose of ruling thereon, or at any other hearing of

<b>9</b> ,6	GB 4 _	
C0004		
1	DIRECT	BXANINATION BY MR. WILCOX:
2	Q	Dr. Mord, have you exet had your deposition taken
. 3		before?
4	A	Xo.
5	Q	Okay. Let me just rebearse for you a little bit
6 7		what the process is. As Mr. Gillen has probably
7		already mentioned to you, I get to ask questions.
8		Your obligation is to answer them. If you don't
9		understand my question, just cell me. This is 🗀 .
10		less-familiar terrain for me than it is for you, so
11		it's entirely possible that my questions will not
12		make sense to you. And if so, don't answer it;
13		just tell me that
14		0kay.
1.5	0	you can't understand that question and would :
17		
18		
19		
. 20		
23	٥	<ul> <li>a search for your views as they pertain to this</li> </ul>
22		natter.
23	A	.Good.
24	Q	I would like to begin by asking you to define some
15 36 17 18 19 20 21 22 23	Q A Q A	you can't understand that question and would i please try to do better, and I will. At any time you'd like to take a break, walk around, clear your bead, use the facilities -this is not an endurance test. It is Ail righta search for your views as they pertain to this matter. Good.

terms that appear in the Rule 26 disclosure  teampaigns, we see in certainly fights over relation that has been produced in this case.  Team That's the produced in this case.  Team That's the produced in this case.	SHEET 2	PAGE 5	PAGE 7	
Skhibit 1 so we have a clear record of what we're talking about.  (PLAINTIFF'S DEPOSITION EXHIBIT NO. 1  MARKED FOR IDENTIFICATION)  Bas the reporter now Marked a copy of your report as plaintiff's Deposition Exhibit 1 for the Nord  MESSAMIDES PARENTIFICATION  MESSAMIDES PARENTIFIC	00005 1 2 1 A 4 O 5 6 7 8 9 Q 10 11 12 A 11 Q 14 15 16 17 A 18 Q 19 20 A 21 Q 22 A 23 Q	terms that appear in the Rule 26 disclosure statement that has been produced in this case. Teah. That's the "whatever the "yes. And why don't we just mark one of these as Nord Skhibit 1 so we have a clear record of what we're talking about.  (PLAINTIFF'S DEPOSITION EXHIBIT NO. 1  MARKED FOR IDENTIFICATION) Has the reporter now Marked a copy of your report as Plaintiff's Deposition Exhibit 1 for the Nord deposition?  (Examines paperwritings.) Yes. In the first paragraph of your report, you refer to something described as 'culture wars.' Or 'our culture wars." Do you see that? It's in about the third line from the bottom?  (Examines paperwritings.) You say, "In both books, my aim has been to chart a middle course in our culture wars." No, I'm- It's in the first paragraph. Oh, in the first paragraph. Okay.	00007 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Q 21 A	conservative view; the liberal view is-becomes the secular view. I think that's kind of unfortunate, because there are liberal religious folk and there are secular conservative folk, and that's why it gets so incredibly complicated.  But the point isI think the fundamental point is that there are some fairly deep divisions in our culturethat have roots in religiously how we make sense of the world, politically how we make sense of the world, politically how we make sense of the world-; that divide us, that we're constantly fighting over, and that shape an awful lot of the battles that go on overover education. I could get a whole lot more specific, butOkay.  "chat's the general overview. As it pertains to the issues in this case

PAG	B 6	ا ۱۳۸۵ بسم	
00005	Could you explain or define for me what you mean by	7 00'00'9	wars or different perspectives on bow we define
1 2	out coltate wata.	2	reality?
۾ ڏا	You're starting with an easy question. Well,	3 A	Yes.
1 11	that's - that's a tricky question, because there	4 0	Okay. One of the one of the outposts, if you
5	what counts as our culture wars is something that	5	will, on that issue, how we define reality -we're
ľ	scholars andand nonscholars disagree about. But	6	raiking evolution or not?
1 7	I suppose that I think of James Davison Hunter's	7 A	That's oftentimes the way it gets worked out. That
İ	book onon culture wars as being the most	8	is to say, I think there's the general perception
9	interesting and beipful discussion.	. 9	that there are fundamentalists, who believe in
10 0	Bxcuse me. Let me try again. I'm asking for your	10	Genesia creation, and them there's all the rest of
11	definition.	13	us reasonable folk. And certainly one of the
12 A		12	things that I want toI've wanted to do in a lot
13	Hunter. Our culture wars areto some extent,	[ 13	of my work is break down that distinction and say
34	culture wars are between religious folk andand	14	it's a whole lot more complicated. So that, for
2.5	secular folk. But as Hunter points outand I	15	example, on the question of evolution, there aren't
16	agreemore often, they're between liberal folk and	16	just two positions; there are seventeen positions, or maybe fourteen, or twenty-one. I don't know.
17	conservative folk. And these wars have to do with	17 18	Andand so use of the interesting
18	how we define reality; how we make sense of	19	questions is that, well, one can certainly be
19	reality; how we make sense of values; what the	20	religious and accept evolution, so one has to Deciminate
20 21	authority is for our moral judgments, our value judgments, our political judgments, our religious	[	more specific. Andand then the question goes to
22		22	neo-Darwinism and whatkind of establishment
23	judgments. And there's a kind of cleavage that runs	23	science views of evolution, and whether there are
24	through our culture that we see in pulltical	24	a)togrative ways of understanding evolution.
4"	carbaga our curence char we see in portexear	· · ·	ditations sale or mineraccount constitution.
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1 2	3		theory, er	: 15	1		naturalistic explanation that's forthcoming, it's
l å	2	à	Yes.	1 7	2		that the design explanation fits the the phenomena
1 1		0	IOT.	11.7	3		better, the evidence better.
12		_		11:	4	0	And would you agree that in addition to there
1.2		À	White the transfer of the tran	11 7	5	¥	having had to have been a design, there had to have
6	- '	Q	And if you would, what is your understanding as to	1 7	5		been a prototype, or two, of those designs to get
1 ?	6		what IDT is?		7		things moving? You can't just have aa real
8	7 7	À	I take IDT to be a theory held by a number of	1			
. 9	8		scientistsMichael Behe, William Dewbski, Stephen		8		biological observation that was designed without
10	9		Meyer. I mean, Phillip Johnson has certainly-	10	9		having had something put that design into effect.
11	. 10		although he's not a scientist, has certainly done	11	10		Would you agree with that?
12	11		an awful lot to define the movement. The	13	11		Arm you-arm you asking whether there's a designer?
13	12		fundamental idea being that matural selection isn't	. 13	12		Well, not just
14	13		able to explain muchthat it's not adequate for	14	13		Is that the question?
15	14		explaining much of what needs to be explained in	15	14		a designer but also a creator
16	15		biology, and that design explanations are a	16	15		Yeab.
17	16		legitimate alprovide a legitimate alternative	17	16	Q	to take that design and put it ieto realthe
18	17		explanation, one whichwhich seems to have a good	18	17		real world.
19	18		deal todesign explanations have a good deal to	19	18	λ	Well, you know, the usual ID explanation is that
20	19		say forwell, let me back up.	20	19		what science, as they understand science, is
21	20		<pre>in theparticularly in the absence of</pre>	52	20		capable of doing isis providing a convincing
22	21		naturalistic explanations, Darwinian explanations,	22	21		design explanation, but that that leaves us well
23	22		in certain important points inin biology and	23	22		short of any account of how the design got there.
24	23		particularly in dealing with evolution, design	24	23		And it seems to me that that's a
25	24		explanations seem to provide a much better account	125	24		reasonable position to take, thatthat science,
			—£444 -4 £-4	11			•
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,	, 2	1	Q	at Dover Area Schools, or any of the
1	3	2		edministrators?
1	4	3		No. Wh-ah (so).
	5	- 4	Q	Did you read the biology textbook that the
	6	5		жо.
	7	- 6	Q	Dover Area School pses?
1	5 6 7 8 9	7	λ	ՄԵ-սե (no).
1	9	8	₽	Fid you read Of Pandas and People?
	10	9		I read it a long time ago, I guess shortly after it
	11	10		first came out, probablywhat was that, late '80s,
	12	11		early 190s? Late 180s? I long time ago. I don't
	13	12		remember when I read it. Andand I contess I
	14	13		didn't read it carefully, but, you know, I got
	15	14		something of the gist of it.
	16	15		And did you reread it
1	17	16		Ho.
	18	17		for your opin
	19	18		No.
	20	19	_	your opinion here?
	21	20		No.
	22	21		Did you read the Dover Area School District "Board
	23	22		Press Release"?
	24		ħ.	Yes, I did.
	25	24	Õ	Let me mark that Exhibit 2.
	į.			

		PAGE	10	
٦	ī	00019	т.	•
	1	I		the following no. I'm sorry. I take it back.
	3	à		That's just paragraphed differently. Never mind.
ı		3		. Did you read any other materials
	4 5	4		describing the Boyer School District policy or the
	6	5		implementation of that policy? And by "policy," I
ı	! ;	6		refer to the one on teaching evolution.
ı	ĺĺ	6 7	A	I readyou know, I have read in the past a few
	ijģ	. 8	'n	newspaper stories about it, I quess.
ŧ	10		ū	Chay.
-	111	10		That's pretty fuzzy in my mind, and it's some time
•	12	11	Λ.	ado.
	13	12	۸	ogo. Did you read the complaint or the answer?
	14	13		No. Theuh [no].
	15	14		Were you forwarded materials by counsel in the case
	16	15	¥	for you to review in connection with the
Ì	17	15		
1	11	17		preparation of your opinion?
	18	18	А	No, not before the opinion, I don't think.
Ì	19 20	18		Afterwards, I read some of the the testimony of
		20		other witnesses, but -but, I think, nothingI
	21	21		think the only thing I received was this
	22			(indicating) before I wrote my opinion.
	23	22 23		'This' referring to Word Exhibit 17
	24 25	24	•	
	73	44		MR. GILLEN: Is this my copy, Chub?
	4			1

		PAGE	18	
	1	87006		
	2	1		PLAINTIPP'S DEPOSITION EXHIBIT NO. 2
	3	2		NARKED FOR IDENTIFICATION)
	4	3	Q	And has the reporter now marked as Arbibit 2
	5	4	Ā	(Examines paperwritings.) Tes.
	6	5	Q	the press release that you referred to?
	7	6	Ā	ՄԵ-հահ (yes).
	5 6 7 8 <b>9</b>	7	ହ	And did you read the District note on the teaching
		8		of avolution?
	10	9		Mo -
	11	10		(Bands paperwritings to the witness.)
	12	11		(Exemines paperwritings.) Well; this is the same
	13	12		this is iccorporated into the press release.
	34	13		Okay.
	15	14		Yeah. Yeah. So I have read that, yes.
. 1	16	15	Q.	All right.
	17	15		(PLAINTIPP'S DEPOSITION REBIBIT NO. 3
1	18	17		MARKED FOR IDENTIFICATION)
ı	19	13	Q	There is a slight difference between what's in the
	20	19		press release and the District note.
	21	20		MR. GILLEN: Can I see a copy, Chub?
1	22	21		MR. WILCOI: Sure. (Rands paperwritings
I	23	22		to Mr. Gillen.)
1	24	23		MR. GILLEM: Thanks.
I	25	24	Q	(By Mr. Wilcox) The District note concludes with
1				
١				

	PAGE	20	
ī	00020		
2	1		MR. WILCOX: Oh.
3	2		MR. GFLLZM: Is this two?
4	3		MR. WILCOX: IHands paperwritings to Mr.
5.			Gillen.}
6	5		MR. GILLEN: 7banks.
7	6		MR. WILCOX: Spre.
В	7		MR. GILLEN: Thank you.
9	8	Q	(By Mr. Wilcox) Can youcan you recall any other
10	9		people you talked with in connection with the
11	ţD		preparation of your opinion in this case?
12	I1	λ	Wall, just Pat. And Rob Maise. They're the only
13	12		kwo.
14	1.3	Õ	And can you recall any other papers that you
15	14		reviewed in compection with the preparation of your
16	15		opinion?
17	16	A	No. I we I agreed to be am I witness? Is that
18	17		what I
19	18	Q	An expert witness.
20	19	A.	An expert witness. I agreed to be an expert
21	20		witness very shortly before the testimonies were
22	21		due, and there wasn't time to do anything. So so,
23	22		no. I don'tI don't think thatI know there was
7 <b>5</b>	23		probably a per-well, I mean, wewe talked a
25	24		(addressing Mr. Gillen) - you asked me to be it, and

		SHEE?	r 6	PAGE 21	. —	PAGE	23	
'	1.	00021			1	00023		
	2	1		them there was a kind of bull of a few	2	ŀ	Q	An I correct that, in your opinion, education needs
ŀ	3	2	Q	"You" referring to Mr. Gillen?	1 3	2		to do more than it currently does to treat religion
ŀ	4	3	A	To Mr. Gillen.	1	3		fairly?
	5	' 4	Ò	Okay.	. 5	4	λ	Yes.
	6	5	À	Andand then there was a hull of a few weeks,	- 6	5	Q	And am I correct that in order to treat religion
	7	8		andand them, as I recall, a deadline, a looming	7	6	-	fairly, in your view, schools, including public
- 1	8	7		deadline, and I didn't have time to do any new	8	7		schools, should not refrain from providing
- 1	9	8		research. I've readI teach about this a little	9	8		instruction on religious implications of the
. 1	10	9		bit, andand I've read a fair amount. I didn't	10	9		curriculum that is otherwise taught in public
П	11	10		feel the need to do any any more remeatch, but I	11	. 10		echoole?
	12	)1		I didn't take the limited opportunity I had to do	22	11		MR. GLLLEN: Chjection to the form. You
1	13	12		pore reading.	13	12		сап алвиег.
- 1	14	13	Q.	I also have to go through your qualifications	14	13		THE WITNESS: Oh, I can go ahead and
- 1	15	14	À	tes.	15	14		answer?
- 1	16	15	Q.	relative to rendering an opinion in this case.	16	15	٨	Yes. I'm bappy to give an explanation.
ŀ	17	16	Ä	Ch-hub (yes).	17	16	Q	Please do.
[	18	17	Q	Am 1 correct that you are not a scientist?	18	17	Ä	It it does seem to me that for a variety reasons,
	19	18	ì.	I am oot a scientist.	119	18		including the nature of liberal schucation, the the
	20	19	Q	And specifically, you are not a sinlogist?	20	19		nature of constitutional neutrality, as the Supreme
	21	20	· A	That's right.	[21	30		Court has defined it, and kind of civic obligations
	ΖŻ	. 21	Q	And you have not well. I shouldn't say it that	22	21		that stem from the public mature of education, that
	23	22		way. Let me ask. What courses, college level or	23	22		public schools need to be sensitive to and respond
	24	23		higher, bave you taken in biology or life sciences?	24	23		to the larger kind of cultural discussion that
	25	24	λ	None. Oh, no, not innot in life sciences, no. I	25	24		we're baving about various important issues, and
								·
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-1								
- 1								
- [				,				·
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- 1								

	PAGE	22				PAGE	24	
1	00922				1	00024		
1 2	1		did study ch	emistry and but not biologyio	1 2			include all of the voices in that discussion. And
1 3	2		college.		113			some of those voices are religious voices.
1 4	3	Q.		you ever sat on a school board?	ن اا	. 3		So that it seems to me to be
5	4	Ā	Bo.	To a vive but all a button boats.	1 5			imappropriate to simply limit education to
ا آ	5	ğ		r taught secondary	6			secular even in public schools to simply secular
1 7	6	À	No.	caught becoming	11 7	5		education and ignore religious points of view on
8	7	ô	-level stude	note 5"	11 :	. ,		those kinds of issues and topics addressed by
وا		À	Մա-ստ (ոս).	GELLET	ll °	_		
10	و	ô		r served as a school administrator in	10			traditionalthethe disciplines defined as they are in totally secular ways.
11	10	¥	the secondary		111			
12	11		Ho.	k 1#A81:	122		٧	Among the life sciences, is there an issue framing
13	12			pave deme is thought a lot about	113			more clearly the need for public education to treat
14	13	¥						fairly with religious viewsI've gotten myself
15	14			to do with the intersection of	14			lost in my question, so let me back up and start
16	15		science and :	Let1d1out	15		_	ověr.
			Yes.		16		A	I'll get myself lost in the answer, so that's fine,
17		Q		s they intersect in education?	1,7			NR. GLLLEM: I don't think there's one of
18		À	Tas.		18			us who hasn't done that so far.
19	18	ġ		particularly, as they intersect in	119		ġ	In your view, is the question of evolution
20	19		public educat	tion?	20			freighted with religious views?
21	20		les.		21			Tes.
22		٥		read on the ways in which the courts	22		Q	And would you explain why you believe that to be
23	22			I States have commented on that	23			\$o?
24	23		intersection	<b>)</b>	24	23	λ	I guess there are a lot of reasons. The reason
25	24	A.	TEB.		1 25	24		back in the 1920s that evolution became such a hot
Ţ.					į			
					[			
					<b>I</b> II			
1								•
					41			
					11			
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SHRET 7 PAGE 25  1 10025  2 1 issue was because of the rise of fundamentalism and the belief that.  3 2 the belief that.  4 3 0 By 'fundamentalism,' you're referring to Christian fundamentalism?  5 4 fundamentalism?  6 5 A Protestant some specifically, Protestant  7 6 fundamentalism, which defined itself in terms of the inerrancy of scripture.  9 8 And once-and that was the-that was 10 for things, the-fundamentalists believed in a lof of things, the fundamentalists believed in a lof of things, the-fundamentalists believed in a lof of things, the-fundamentalists believed in a lof of things, the fundamentalists believed in a lof of things, the-fundamentalists believed in a lof of things, the fundamentalists believed	
the belief that.  That the become part of our culture-wars to betties.  The fundamentalism which defined itself in terms of the inerrancy of scripture.  That the inerrancy of scripture.  That the become part of our culture-wars to betties.  That the belief that.  That the don't become part of our culture-wars to betties.  The don't become part of our culture-wars to betties.  That that don't become part of our culture-wars to betties.  That that don't become part of our culture-wars to betties.  That that don't become part of our culture-wars to betties.  That that don't become part of our culture-wars to betties.  That that don't become part of our culture-wars to betties.  That that don't become part of our culture-wars betties.  That that don't become part of our culture-wars betties.  That that don't become part of our culture-wars betties.  That that don't become part of our culture-wars betties.  That that don't become part of our culture-wars betties.  That that that don't become part of our culture-wars betties.  That that that don't become part of our culture-wars betties.  That that that don't become part of our culture-wars betties.  That that that don't become part of our culture-wars betties.  That that that don't become part of our culture-wars betties.  That that that don't become part of our culture-wars betties.  That that that don't become part of our culture-wars betties.  That that don't become part of our culture-wars betties.  That that that don't become part of our culture-wars betties.  That that don't become part of our culture-wars betties.  That that that don't become part of our culture-wars betties.  That that that don't become part of our culture-wars betties.  That that that don't become part of our culture-wars betties.  That that that don't become part of our culture-wars betties.  That that that don't become part of our	1
4 3 Q By 'fundamentalism,' you're referring to Christian 5 4 fundamentalism? 6 5 A Protestant sore specifically, Protestant 7 6 fundamentalism, which defined itself in terms of 8 7 the inerrancy of scripture. 9 8 And once-and that was the-that was 10 9 the-fundamentalists believed in a lof of thiogs, 11 10 but-but that was perhaps the most important 12 11 defining principle of Protestant fundamentalism, 13 12 was the inerrancy of scripture to response to the 13 12 notion of a purposeless-	2
5 4 fundamentalism? 6 5 A Protestant sore specifically, Protestant 7 6 fundamentalism, which defined itself in terms of 8 7 the inerrancy of scripture. 9 8 And once-and that was the-that was 10 9 the-fundamentalists believed in a lof of thiogs, 11 10 butbut that was perhaps the most important 12 11 defining principle of Protestant fundamentalism, 13 12 was the inerrancy of scripture to response to the 15 4 Q You said that neo-Darwipism is an unguided 6 5 process 7 6 A Yeah. 9 7 Qas currently explicated by Darwinian 9 8 evolutionists. 10 9 A Uh-bub (yes). 11 10 Q In contrast, you posit that there are religious 12 11 adherents who wouldwho are unconfortable with 13 12 notion of a purposeless	3
5 4 fundamentalism? 6 5 A Protestant sore specifically, Protestant 7 6 fundamentalism, which defined itself in terms of 8 7 the inerrancy of scripture. 9 8 And once-and that was the-that was 10 9 the-fundamentalists believed in a lof of thiogs, 11 10 butbut that was perhaps the most important 12 11 defining principle of Protestant fundamentalism, 13 12 was the inerrancy of scripture to response to the 15 4 Q You said that neo-Darwipism is an unguided 6 5 process 7 6 A Yeah. 9 7 Qas currently explicated by Darwinian 9 8 evolutionists. 10 9 A Uh-bub (yes). 11 10 Q In contrast, you posit that there are religious 12 11 adherents who wouldwho are unconfortable with 13 12 notion of a purposeless	4
7 6 fundamentalism, which defined itself in terms of 8 7 the inerrancy of scripture. 9 8 And onceand that was thethat was 10 9 thefundamentalists believed in a lot of thiogs, 11 10 butbut that was perhaps the most important 12 11 defining principle of Protestant fundamentalism, 13 12 was the inerrancy of scripture to response to the 17 6 A Yeah. 9 7 9as currently explicated by Darwinian 9 8 evolutionists. 10 9 A Uh-buh (yes). 11 10 9 In contrast, you posit that there are religious 12 11 adherents who wouldwho are unconfortable with 13 12 notion of a purposeless	5
the inerrancy of scripture.  7	6
9 8 And once-and that was the-that was 10 9 the-fundamentalists believed in a lot of things, 11 10 but-but that was perhaps the most important 12 11 defining principle of Protestant fundamentalism, 13 12 was the inerrancy of scripture to response to the 13 12 notion of a purposeless-	7
10 9 thefundamentalists believed in a lof of things, 11 10 butbut that was perhaps the most important 12 11 defining principle of Protestant fundamentalism, 13 12 was the inerrancy of scripture to response to the 13 12 notion of a purposeless	
11 10 butbut that was perhaps the most important 11 10 0 In contrast, you posit that there are religious 12 11 defining principle of Protestant fundamentalism, 12 11 adherents who wouldwho are unconfortable with 13 12 was the inerrancy of scripture to response to the 13 12 notion of a purposeless	
12 11 defining principle of Protestant fundamentalism, 12 11 adherents who wouldwho are unconfortable with 13 12 was the inerrancy of scripture to response to the 13 12 notion of a purposeless	
13 12 was the inerrancy of scripture to response to the [13 12 notion of a purposeless-	
134 13 proving liberalization ofof mainline-religion ■114 13 A Un-bub (veg).	
15 14 Protestantion in America.	
16 15 And onceonce it was believed that 1 16 15 A Ub-hub (yes).	
1? 16 scripture was without error, in a kind of matural 17 16 Q and would have greater confort with a biology	
18 17 literalism that goes to it, then Genesis has to be 178 17 that countenanced a purpose to life-	
19 18 read literally. And then we've got a conflict with 19 18 % Yes.	
20 19 evolution that—that really wasn't there until the 20 19 MR. GILLER: Object to the form. Go	
21 20 rise of fundamentalism. My understanding is that 21 20 absad.	
22 21 evangelicals and conservatives had-had pretty much 22 21 Q —that purpose, as I understand it, being derive	
23 22 accepted evolution before the rise of 23 22 from a god. 24 23 fundamentalism. 29 23 % Uh-hub (yes).	
25 24 So, that's certainlythatthat's what 25 24 MR. GILLEM: Object to the form.	4.7
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1	09026		1	00028		
2	1	gives rise to the controversy, and I thinkand the	z	1	Q	So, to be clear as to the culture wars
3	2	Scopes trial, of course. And that still is what	3	2	À	Ob-hub (yes).
(	3	frames so much of the public discussion.	4	3	Q	on one side of a divide, wherever the divide
[ 5	4	But that's not the only issue. I mean,	5	4		might be, there are secularists, who are content to
5	5	another issueand one more relevant. I sumpose, to	6			view life and its evolution as undirected
7	6	this caseis the question of neo-Darwinism in	1	*	Α	Uh-hub (yes).
9	7	particular, rather than evolution in general, and	8		Q	and there are religiousI don't want to say
9	8	the the fact that mep-Darwinism is a purposeless	9			'adherents," but believerswho view life as filled
ŧ0	9	process, an unguided, purposeless process that's	10			with purpose.
11	10	built into the structure of meo-Darwinism. So that	11			MR. GILLEN: Objection to the form.
12	. 11	many more-moderate and liberal religious colk who	12			Hould that be correct?
13	22	have no trouble with evolution might still have a	13			Tes.
14	23	problem with with peo-Parwinism as the as the	14		Q	And in your view, education, including public
15	14	mechanism that explains evolution.	15			education, should present both sides of
16	15	So the question is ais a problem that	16		_	MR. GILLEM: Objection to the form.
17	16	many liberal religious folk have, although I think	17		ū	those worldviews.
18	17	this is oftentines lost in the culture-wars	18			MR. GILLEM: I'm sorry, Chub. And let me
19	18	rhetoric, that evolution is is evolution designed	19			just cut this short. One, if you would - Chab's
20	19	or not; does it have a purpose of not?	20			asking questions, it's a complicated subject
21	20	SO, yes, t mean, people whoreligious	21			matterlet bia finish his quastion before you
22	21	folk who aren't fundamentalists oftentions have	22			answer, so I can at least make a record about
23	22	difficulties with meo-Darwinian evolution in-in	23			objections
24 25	23 24	particular. And them there are various kinds of	24			THE MITTHESS: Okay.
25	24	philosophical problems and problems that	25	24		MR. GILLEN: just to the form of the .
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1	00029				<b>L</b>	1	40031		
2	1	ក្វា <b>ខ</b> ់	stion, 'cause it's	a complicated thing.	l'an	2	1		hand with regard to intelligent design, which seems
3	2	SOL	ry, Chub, for cutt	ing you off.		3	2		to me to involve a different set of issues.
4	3		MR. WILCOX:	Sure.		4	3	Q.	In that answer, you saidand I think you said
5	4		MR. GILLEN:	Capcan you answer b	nis	5	4		something like this earlierthat IDT, or
6	5	çue:	stion?			6	5		intelligent design, is scientific if science is
-   7	. 6	•	THE WITHESS	: Would you tell me th	ne	7	6		opderstood more liberally
8	7	¢uê:	tion?	_	ľ	8	7	A	Yes.
9	₿	•	XR. GIIAEN:	I'n gorry, Chub.		9	8	2	than the Mational Academy of Sciences, for
10	9		WR. WILCOX:			10	9		exemple
11	10		MR. GILLEN:	Can she read it back		11	10		TeB.
12	11	per:	haps?			12	11	Q	night describe it. And I wouldI'd like to
13	12			Cançan it be repeat	ted for	13	12		explore that for a moment. As I correct that as
14	· 13	. 992				14	13		science is viewed by, let's call them, purists
15	lė		MGR. Glillest:	Yeab.		15	14		Okay.
16	. 15		(DESCRISSION	r opp record)		16	15	Q	science insists on natural explanations for
17	16	(Where:	ipon, guestions, a	nswers, and objections	OD:	17	16		phenomena in the natural world?
19	17	Page .	8 of this transcr	ipt, beginning at Line	1	18	17		MR. GTLLEM: Objection to the form.
19	18			<pre>16, were read back.)</pre>	l	19		A ·	
20	19 3			des" isie a bit of a		20	19		And
21	20			ed, there are various b		21	20	A	All right, butyeah. Purists, establishment
22	21			athat different kinds o		22	21		science, the the dominant view of science is is
23	. 22			rith evolution, as I sai		23	22		maturalmaturalistic, yes.
24	23	bet	ween the kind of G	enesis creationists and	dand	24	23	Q	And by 'naturalistic,' do you mean that only
25	24	aot-	≥ liberal folk who	ofor whom the problem	is	25	24		natural phenomena can be used as explanations?
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ſ	1	00030			1			
- 1	2	1		purpose and design.	2	1	A	Tes, although there is a kind of philosophical
- 1	3	2		The other kind of concern I have, I	3	2		complexity that I question. But, yes, 2 mean, 1
ı	4	3		suppose, is wis that while thewhile 1while I	4	3		suppose I would say
	5	4		amwhile 1 do agree that public actorisand	5	4	û	Okay.
- 1	6	5		public universities, for that matterhave some	16	5	À	that's right.
	7	6		obligation to include religious voices regarding	1 7	6	Q	And to create a divide
- 1	8	7		understandings of nature in the in the in the	. ₽	7	À	OΕ-hub (yes).
- 1	9	В		curricular conversation, that that's a different	9	8	Q	supermatural explanations canno: be referred to
- 1	10	9		question, I take it, than the one this case is	10	9		MR. GILLEN: Object to the
- 1	11	10		about, which is scientific alternaalternative	111	10	Q	inin science
- 1	12	11		scientific ways of understanding nature.	12	11		MR. GILLEN: Object to the form.
- 1	13	12		So that I wantI would want to	13	12		is that correct?
1	14	13			14	13	A	Tes, although, sgain, I would want to say I think
- 1	15	14			15	14		it's beipful to draw a distinction between
- 1	16	15		religion in education from the question of	]16	15		supermaturalism "A" and supermaturalism "B."
- 1	11	16			17	16		What's 'A' and what's "B"?
- 1	10	17		2020101217, 20 # 1103 1	18	17	Ä	"A" is traditional, orthodox religion, the idea of
'''	79***	18		-,,,,	19	18		a supermetural god as a being who creates nature
- 1	20	19		and a a a a a a a a a a a a a a a a a a	20	19		and who may intervene in mature from the outside by
. !	21	20		So II just want to make ∙ make clear	31	20		way of miracles or by way of implanting souls in
- 1	22	21		thatthat there are two different kinds of	22	21		people, as the Pops holds. That's one kind of
- 1	23	22		arguments that I would give, one for including.	23	33		supermaturalisa.
- 1	24	23			24	23		Supernaturalism "B" doeso't require auy
- 1	25	24		science classes, perhaps notand them the case at	25	24		kind of god like that, but rather is the idea that
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	SHEET	9	PAGE 33		PAGE	35	<u> </u>
' 1	. 00033			1	00035		
. 2	. 1		you cannot understand nature apart from	2	1		all-virtually all establishment, you know, people
3	2		teleplogical capsation, apart from there being	1 3	2		who work within the maturalistic tradition of
4	3		purpose in hature or design in mature. So that-	4	3		science are supporters ofof neo-Darwinism. But
5	4		because one of the things that I believeand	5	4		but I'm-ny impreesion, again, is that many of
6	5		there's a fairly rich philosophical and theological	6	5		those folks have never taken the trouble to try and
7	б		literature to draw on hereis that one can believe	٦	6		understand the lesueswhat is at issue with regard
8	7		that there's design in mature or purpose in mature	8	7		to intelligent design and the criticisms of
9	Ĥ		vithout believing in a -a kind of supercatural god	9	8		neo-Darvinism.
10			that is thethe usual view inin Judaism,	10	9		So, to say that most all scientists are
11	10		Christianity, and Islam, for example.	111	10		supporters of meco-Darwinism is aa misleading
12			So I think it's important to distinguish	32	11		statement, that the number of scientists who have
13			those two kinds of supermaturalism, but both are	13	12		actually taken thethe trouble to understand
14			excluded from materalistic science.	74	13		what's at issue and read the literature about the
15		Q	And "teleology" means?	15	14		controversy, I suspect, is very, very small.
16		ļ	Purpose, telos, the end, that there is athat	16	15		One of the things that struck me in sin
17			mature works toward some kind of an end or goal, so	1,7	16		listening to some people who defend intelligent
18			that there's a pumpa design to mature.	18	17		design isis that because of their educations, the
19		Q	Okay. You referred earlier to proponents of	19	10		narrowness of their scientific educations, they
20			intelligent demigm, and you identified a Mr. Behe	26	19		were never exposed to any kind of philosophical
21		,	Un-huh (yes).	21	20		questions about methodological maturalism or the
22		Q	Mr. Bembaki, Phillip Johnson.	22	21		sature of acience that might cause them to think .
23		À	Մո-հահ (yes).	23	22		more critically about meo-Darwinian. And only for
24		Q	Have you made any effort to count noseshow many	24	23		reasons that that perhaps have nothing to do with
25	. 24		IDT people there are and how many mainstream	25	24		the science, or perhaps because they become
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1	00034			1	00036		
2	1		biologiets ar	2	3		disenchanted With thewith the adequacy of
3	2	A	Yeah.	3	2		nep-Car⊎inian explanations and they start reading
4	3	Q	evolutionary scientists there are?	4	3		more widely, do they recognize that they weren't
5	4	A	II haven't made any formal effort to count noses,	5	4		really in much of a position ever to judge the
6	S		no. But invariably one forms impressions simply	6	. 5		adequacy of - of neo-Darwinian asscientifically.
7	- 6		from reading the literature and, you know, seeing	7	6		Thomas Kubn says in The Structure of
8	7		how many folks areare writing about this. 1	e	7		Scientific Revolutions, he says that scientists
9	8		don't read theas I said, I'm oot a scientist. I	9	_		receive the most dogmatic training of of anyone
110	9		don't read the scientific journals. So it's kind	10	-		except theologians. And, of course, he's wrong.
]11	10		of the the more popular literature about it that ?	11			Theologians are much more liberally educated than
12	13		do read.	12			scientista are. No scientist has to take a
13	22		I do remember the the big list of of	13			phikosophy or a theology course in order to get a [
14	13		critics of Darwinism and defenders of intelligent	l l a			th.D. in actance, but anybody who studies
15	14		design that appeared in The New Republic, and a	15			philosophy or theology has to study a good deal of
16	<b>£</b> 1		couple of other places, I think, where there were	16			science.
17	16		three bundred, something like that, scientiats who	17			So I think the marrowness of scientific
18	17		identified themselves as sympathetic to the	18			education in a way makes it much less likely that
19	18		novement or critical toto meo-Darwinism.	19			they're going to question neo-Darwinism. So to say
20	19		So, you know, II bave an impression	20			that all scientists are are supporters of
21	20		that it's undoubtedly a small but perhaps -but, I	31	20		лео-Darwinism bides a crucialcrucial problem.
22	21		think, significant minority ofof people in the	22			Kxcuse me. By 'liberal education'
23	22		sciences who have some kind of and the other	33			Yes.
24	23		thing, you know, thatthat's striking to me is	24		¢	are you referring to what we would generally
25	24		thatthe usual view is that, of course, allor	25	24		refer to as the liberal arts?
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	SHEET 10	PAGE 37	_	PAGE	39	
1	00037	· · · · · · · · · · · · · · · · · · ·	1	00039		· ·
2	1 %	Yea, although part of what I we tried to do is	2	1		help students understand whatthe role science has
1 3	2	develop a theory of liberal education that is in	13	2		in a liberal education requires establishing
4	3	fact better thanthan the prevailing views. And	1.4	3		connections with other disciplines and ways of
1 5	4	it's not that I depart all that much from people	5	4	•	thinking.
6	. 2	from whom I have in fact learned a lot. I have	6	5		So that schence education should be more
7	6	it's not that EI have all that unique am	7	. 6		literal than it is. It should not just marrowly
. в	7	underständing.	В	7		focus students in on the establishment
9	В	But - but one of things that croubles me	9	₽		understanding of science but should broaden them
10	9	isdoes bear on the discussion here and on what	10	9		philosophicallyand, in fact, I would also add,
11	10	we're just been talking about. And that is, !	11	20		religiouslyby locating acience ic various kinds
12	11	think the conventional understanding of liberal	12	11		of cultural disputes.
13	12	education is that one should have a little science,	13	12		Although here, with regard to this case,
14	13	a little literature, a little history, a little	14	13		I would be happy if they would simply give students
115	14	art, a little economics, and so that you study -you	15	14		a broader understanding of the relationship of
16	15	take different subjects.	1,6	15		establishment science to otherto dissenters on
17	16	And my problem with that way of thinking	17	16		the edges of- of science to get them to see that
18	17	is that we don't teach students subjects; we teach	18	17		there are various ways of being-being scientific,
1,9	18	them disciplines. We teach them the establishment	19	16		that the idea of science itself is one that's
20	19	way of thicking within economicsneoclassicsi	20	19		tbat's controversial.
21	20	economic theory—the establishment way of thinking	21	20	Đ.	This may be touching on a new subject, but
22	21	in history, or in art, or in-or in science, and	22	71	A	Uh-hub (yes).
23	22	that a part of what makes education liberaland	23	22	ņ	I perceive of it as an extension of what
24	23	thenand then what that ends up being is a kind of		23	٨	Okay.
25	24	separatist education, where youit'sit's like	25	. 24	0	you were just saying. There are two terms that
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	PAGE	30			PAGE	40	10-10-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0
1 3	00038			1 1	00040		
1 2	1		encountering different items on a cafeteria line.	2	1		I've encountered in this case that I think bear
3	2		I call it serial socialization. That is, you learn	3	2		differentiation and definition.
] 4	3		what the establishment	4	3	Ä	նի-ոսի (yes).
1 5	4	Ð	You don't mean C-E-R-E-A-L, right?	5	4	Q	Wethodological naturalism and philosophical
16	5	Ā	Yeah, the cereal on the cafeteria line. Oh, that's	6	\$		naturalism.
1 7	6		good. I like that. I'm going to use that, if I	7	6	A	ՄԻ-Իսի (yes).
Ιé	7		may. Thank you.	&	7	Q	And am I correct that if I can call it 'mainstream
9	ġ		And-rand a part of -of the purpose of	و اا	8	-	science" or "traditional science"
10	9		liberal education is to draw connections between	10	9	ì.	Մի-Խան (yes).
111	10		the different disciplines, to point out the	11	10		insists on methodological naturalism?
12	11		conflicts, the tensions, the overlaps, the	12	11	į.	Yes. That'syes.
13	12		compatibilities.	12	12	0	And an I correct that some scientists and other
14	13		And that's what students don't learn to	14	13	•	thinkers have developed a philosophical naturalism,
15	19		do. They don't learn to understand what the	15	14		which is a religious or a philosophic worldview
16	15		relationship of the disciplines is. And the very	16	15		rather than a methodologically scientific
117	16		intraI Weam, this is part of what philosophy	17	16		worldview?
līΒ	17		does, is it tries to get at the the connections	18	17		MR. GILLEN: Object to the form.
19	18		and the relationships between disciplines so that	19	18	),	Certainly, that distinction is oftentines drawn.
20	19		we can think outside of each box in turn and ask	50	19		Whether it holds up in practice is another
21	20		larger questions about what is reasonable to	21	20		grestion.
22	21		believe, all things considered.	22	21	0	"Philosophical naturalism" means what?
123	22		And that's part of what science education	23	22	à	It's the idea that all of reality can be understood
24	23		should do, it seems to me, that it ocean't do, is	24	23		within maturalistic categories, so that in
25	24		is not just train scientists, but to gettoto	25	24		principle, unlike methodological maturalism, it
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١,	00041			1	00043		
. 2	1		concludes that naturalism isis adequate for	1	1		matter.
3	2		explaining everything. A methodological maturalist	] )	2	እ	Chay. Ifgiven the religious enswer, ifif
14	3		would oftentypically say that itit may be	4	3		religion" means answering a question that has
5	4		that - that science can't explain everything but	5	4		religious implicationslike "Is there meaning?"
6	5		science should continue to be a methodto adhere	6	5		and if you say no, because you've given an answer
7	6.		to a methodological maturalism: Let's see how much	7	6		to a religious kind of question, then philosophical
8	7		we can explain that way, but maybe we can't explain	1 8	7		maturalism, I suppose, could be called a kind of
9	Ð		everything in the end.	9	8		religion.
10	9		That distinction certainly can be drawn.	70	9		I myself don't like to use "religiou"
11	10		Wy problem, again, is that in practice the	11	10		inin that way. For for me, a religious view is
12	11		distinction collapsed, given the way we do	12	11		a view that holds that there is some kind of
13	12		education nowadays.	13	12		purpose or meaning to existence beyond daturalism,
14	13	Q ·	Let me see if 1 can be more direct in trying	14	13		so that materalism simplyitit doesn't make much
15	14		· Okay.	15	14		sense to call that a religious view. But that
16	15	Q	to go where I's	16	15		that's a view aboutthat's my effort to try and
17	16	A	All right.	17	16		avoid using the word 'religion' in an Unduly
18	17	٥	trying to go here. Methodological naturalists	18	17		controversial or complicated way.
19	18		would say. "We insist on using our methodology to	19	18	Q	And forgive me, because my notes got in the way of
20	19		understand the matural world.*	20	19		my umderstanding. You sald a religious view as you
. [ 21	20	A	Oh-huh lyesh.	21	28		would view it requires that there is a meaning or
22	71	Q	And philosophical naturalists would say, 'The	22	23		purpose to life, did you say?
23	22		natural world is all there is:	23	. 22	Y	To reality.
24	23	A	Dh-buh (yea).	24 -	23		To reality?
25	24	Q	there is nothing beyond that."	25	24	A	To reality. That's right. There is a dimension to
1	•		• •	П			• •
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1	00042	_		1 1	00044		lie as anality where there
3	1	à	Chay.	2	1		reality or an aspect of reality that-that
3	2	Q.	So the philosophical naturalists would say, "There	] 3	2		transcends what we can know naturalistically. Ad
4	3		is no divine purpose in life'	11.5	3		the different great world religions have defined
5	4	A	Ub-hub (yea).	5	4		that in very different senses. And in some
5	5	Q.	and, indeed, there is no divinity.	6	5		religious traditions, youyou have God, and In
7	6	X.	Մո-հահ (yes).	7	6		others, you have nirvana, or Brahman, or the Tao,
8	7	Q	The philosophical naturalist would say, "There are	8	7		and scnething that doesn't look all that familian
9	8		no absolute moral values; there are socially	9	8		to our idea of God within the Western tradition,
10	9		ntoful	10	9		but it's still an understanding of reality that
] )	10	λ	Okay.	11	10		transcends in somein important ways whatwhat
12	11	G-	- values. So the philosophical naturalists would	12	11		naturalistic scientific worldview allows us to -t
13	12		take a religious approach	13	12		say about reality.
14	13		MR. GILLEN: Objection. I'm sorry.	14	13		And that's crucial to religion, to my w
15	14	Q.	in termreligion in the sense of providing	15	14		of thinking, so that caburalism doesn't become
16	15	•	ultimate meaning and say that there is no ultimate	16	15		religious just because it gives megative answers
17	16		perning.	17	16		religious questions.
18	17		MR. GILLEM: Objection	18	17	٥	Okay.
19	13	Q.	Fair enough?	19	18		I'mI'm not sure that much hange on that, in the
20	19	•	MR. GILLEN: Objection to the form, Go	20	19		in the end, even constitutionally, butbut I thi
7 i	20		ahead. Answer.	21	20		that's the clearest use of of the term 'religion
22	21	0	And that was so clumsy, I'll come back and do it	22	21	0	And to wrap up this segment
23	22	¥	again.	23	22		Okay.
24	23		MR. GILLEM: No. You know what, Chub,	24	23		is it your view that that religious - strike that
25	24		you and I both know it's a complicated subject	25	24		Is it your view that that appreciation
20	29		Abit with 1 both recom 11.8 a combilicated project	1 23	24		14 in Ann Alex come come distriction
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		SHEET 12	PAGE 45		PAGE	47	
	١ 1	00045	<u> </u>	l	00047		· <b>L</b>
	2	1	for the reality of a transcendent purpose to	2	1	Q	And it's the next-to-the-last paragraph. And you
	3	2	reality needs to be brought into both science and	3	2		ssy, quote, "Me disagree deeply in our culture
	4	3	science education in public schools?	4	3		about how to make sense of nature, and then the
	5	4	MR. GILLEN: Object to the form.	5	- 4		sentence continues.
	6	5 A	Let me give you a qualified yes, because a	6	5	· Ji	(Examines paperwritings.) Uh-huh (yes).
	7	6	straightforward yes would invariably be	7	6	Q	And I want to go into each of the parts of it.
	. 8	7 .	misunderstood. Soand again, my understanding	₿	7	λ	Okay.
	9	В	thethe conception of science education that I	9	B	Q	In talking about this disagreement in our culture
	10	ģ	arque for is locating science, in part.	0·	9		about how to make sense of nature, are you talking
	11	10	historically and philosophically in relationship to   11	1	10		about this question whether there is or is not a
	12	11	other subjects, other areas of our cultural life.	2	11		transcendant purpose in reality?
	13	12	So that a good science education should help 13	3	12		MR. GILLEN: Objection to the form.
	14	13	students understand the relationship of science to   14	4	13	λ	Yes. But again, the the controversy occurs on, I
	15	14	moral issues, political issues, religious concerns.	5	14		think, two different levels. One is the level of
	16	15	That doesn't mean that religious views	6	15		our culture ware, where thethe issue is
	17	16	should be understood to beshould be understood to 17	7	15		oftentimes framed in terms of creationism versus
	18	17	provide some kind of legitimate alternatives to	8	17		evolution. Andand as I said, II think we need
	19	18	science, that they can become that that they for 19	9	18		to recognize that there are alternative positions
	20	19	example, thatthat Genesis should be taught in a 120	Û	19		there, that the usual culture-wars rhetoric doesn't
	21	20	science classclass as a contender with 21	1	20		work very well.
٠	22	21	establishment science, no. 22	3	21		And then there's also disagreement
	23	. 22	Science classes should teach science. I	3	22		amongmore narrowly among scholarsand, in fact,
	24	23	think they should include some discussion of ID? . 24	ŧ	23		I think, among scientistsabout how to make sense
	25	24	because IPT should be considered science. At the 25	5	24		of cature, so-where IDT isis one of the major
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2 1 atat the least, students should be made aware of 2 3 2 the controversy over whether IDT is science. But 3 4 3 any science class should also locate students 4	1 1 2 3 4 5	issues.  But thatit's notthat's not the only scurre of that kind of conflict. It comes up with
the controversy over whether IDT is science. Sut  any science class should also locate students  4	3	But that it's not that's not the only scure of that kind of conflict. It comes up with
4 3 any science class should also locate students 4	i	scurce of that kind of conflict. It comes up with
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5 4 within the larger cultural conversation we're	5	regard to fine-tuning in cosmological evolution.
6 5 having about important things.	•	It comes up with regard to the origins of life. It
7 6 So, to that extent, religious, moral, and 7	6	comes up with the nature of mind and morality.
8 7 political views that science impigges on, has 8	ን	There are-there are conflicts there among
9 B implications for, need to be part of the framework 9	В	scholars, among philosophers and scientists and
10 9 for tocating students.	9	sometimes theologians, that the public is simply
11 10 MR. WILCOM: Ckay. Why don't we take a 11	10	unaware of. Soso, you know, we've got to do a
12 11 little break.	11	kind of two-layer analysis, I think.
13 12 MR. GILLEN: Sure.	13 0	Okay. You continue in the sentence, we disagree
14 13 MR. WILCOX: Me've been going for an 14	13	about evolution."
15 14 hour.	14 A	. Wh-buh (yes).
16 15 MR. GILLEN: Certainly. 26	15 Q	Is this the disagreement as to whether evolution
17 16	16	has purpose or not, or is this the disagreement as
19 17 (ELEVEN-MINUTE RECESS) 18	17	to whether evolution explains the origin of species
19 18	18	· or not?
20 19 Q (By Mr. Wilcox) If you will turn to the second 1 20	19	MR. BILLEN: Object to the form.
21 20 page of your opinion 21	20 A	Well, again, there are several different
22 2] A (Examines paperwritings.) Ub-hub (yes). 22	21	disagreements. As I said, there'sthere's the
23 22 0 - there's a paragraph under the beading 'Critical 23	22	culture-wars disagramment, where it's svolution
24 23 Thinking 24	23	versus creationism oftentines. There's a more
25 24 A Yes.   25	24	suphisticated analysis whichwhich says it's not
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		SHERT	13	PAGE 49		PAGE	51	
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	ž	1		evolution versus creationism, but it's different	2	1		you're saying, but I'm not sure. Does this get
- 1	ã	2		understandings of evolution: Is there a design, is	3	2		back to the motion of the dafeteria
	á	ī		there a purpose to evolution? And them there's	4	3	A	Ob-huh (yes).
	Š	ā		there's the the conflict within and on the borders	5	4 1	Ď.	and students are given coursesyou know, here's
ı	6	Ś		of science about whether or not there should be	6	5		a regetable, bere's a mest, here's a potato, bere's
	Ť	ř		design explanations allowed into science. SoEO	7	6		a piece of piewithout being given an
- [ '	В	7		it's a multilayered disagreement, I think	8	7		organizational framework as to how you make a meal?
	9	á	0	Andand the third sentencethe third statement in	9	В	J.	Yeah. They're only given foodthey're only given
_ I ·	10	9	•	this sentence is, quote, 'we disagree about the	10	9		choices from one food group, and and so that you
	11	10		relationship of science and religion.	11	10		know, a liberal education is is the opposite of a
	12		λ	Examinas paperwritings.) Yeab.	)2	31		marrow or a parachial education. And so by not
	13	12	٥	And this is something that I don't think we've	13	12		includingmost of my work has been concerned
	14	13	-	talked about yet this morning. What is the	14	13		withwith including religious verces in that
	15	14		disagreement about the relationship of science and	15	14		discussion. That's what make-religious voices are
	16	15			16	15		central in the in the curricular conversation, if
	17	16	A.		17	16		it's to be truly a liberal conversation and-and
l	18	17		**************************************	10	17		part of a liberal education. Contemporary
- 1	19	18			19	18		education is illiberal by excluding religious
	20	19		1840 mb = mm   12001 mm   1481-1 1	20	19		voices.
- 1	21	20			21	20		Education, only a decade or two or three
- 1	22	21			22	21		ago, used to be illiberal by excluding women's
- 1	23	22			23	22		voices or the voices of members of minority
- 1	24	23			24	23		traditions or ethnic groups. Their voices were
	25	24		science. In Barboux, in the kind of work that's	25	24		left out. Is that just benign neglect? No. We
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	PAGE	50 _		<u></u>	PAGE	52	
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2	l		done so much to define this whole area of science-	1 2	1		now all agree that -that there's constining
3	2		and-religion studies, suggests there are various	3	2		Fundamentally illiberal about an education that
4	3		hinds of andels: There's models of conflict:	1 4	3		doesn't include women's history, women's
5	4		there's models of independence; there's models of	5	4		literature, women's points of view, or black
6	5		integration. I forgethe's got four different	6	. 5		history, and so on, or non-Western cultures.
1 7	6		undals. Some other scholars, you know, come up	1 7	6		So, you know, my argument is-is much
8	7		with a different-different names and organize the	- 3			like that, thatthat a liberal education should
9	8		relationships in different ways.	9	8		include all of the major volces in in the larger
10	9		So this is an area of lively discussion	10			cultural conversation. Otherwise, education isis
ii	10		over the last twenty, thirty, forty years as as	11	10		screening out particular points of view. It's
12	11		scholars have not assumed, as, I think, was much	12	11		content discrimination or viewpoint discrimination.
133	12		the case, that science and religion were two	13	12	Q	When you use the term "religious voices"
14	13		entirely separate phenomena for so long, andbut	1	13	A	Yes.
15	14		have -have talked about the complexity of the	15	14	Q	do you mean anything different from persons
16	15		relationships and offered various kinds of models	16	15		having a religious viewpoint or thought
117	15		for understanding it. So it's to acknowledge	17	16		reflecting
18	17		that - that very lively debate among scholers.	18	17	A	No.
115	18	0	You say, in the next paragraph, quote, public	19	18	Q	that religious
20	19	•	education actively discourages critical thinking by	20	19	Ā	Voices coming out of religious traditions or who
21	20		failing to provide students any critical distance	21	20		make religious kibds of arguments.
22	21		on the secular ways of thinking end living that	122	21	0	"Voices" is a metaphor for something.
23	22		they are taught to accept uncritically	23			It's a metaphor.
24	23	1	Ob-hub (yes).	24		Ò	And what's the something that it's a metaphor for?
25	24		"in their various courses," I think I know what	25			Well, forfor tradition. But thea part of my
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	SHEET	14	PAGE 53		PAGE	55	
i	00053			1	00055		
] 2	1		larger concern is that, too often, what limited	1 2	1	•	Okay. You say that public education actively
3	5		study of religion there is in schools and	3	2		discourages critical thinking. Are you making that
6	3		umiversities focuses on traditions in their	9	3		as a purposeful statement or as an observational
5	4		historical guise. So that in history classes,	5	4		statement?
6	5		there will be something about Judaism or	6	5	Ä	is it intended or not?
7	- 6		Christianity andand Islam in the ancient world or	i I- 7	6	Q	Tés.
1 3	7		medieval world. Kaybe we'll even get a little bit	<b>i</b> l 8	7	À	Some is; some isn't. I think a lot of it is naive,
1 9	8		of religion in the Reformation. Them, after that,	9	В		philosophically maive, that because most teachers
110	9		religion drops out ofout of the textbooks and out	10	9		are educated in the prevailing paradigms of their
11	10		ofout of education.	11	10		disciplines, they are not themselves educated to
12	11		And so one of the points I want to make	12	11		understand dissenting voices and alternative ways
13	12		is that you need to include contemporary religious	13	12		ofof addressing the subject at band or of
14	13		volces, not just religious traditions which we then	14	13		relating the subject at hand to other disciplinary
15	14		locate in the distant past. It's a way ofof	15	14		approaches. They're they're narrowly trained.
16	15		saying the contemporary conversation is what's	16	:5		It's not that they intend to provide students with
117	16		really crucial.	17	16		an illiberal education or socialize or indoctrinate
18	17	Q	And I'm trying to get at what you mean by "voices"	18	17		students into a particularparticular discipline.
19	18		or 'conversation,' because	19	18		It's thatit's just that theirtheir education
20	19	A	Ob-huh (yes).	20	19		puts blinders on them, so that they have an unduly
21	20	Q	Are you I would understand 'religious voices' to	21	20		parrow view of what it is that they're supposed to
22	21	_	mean including in the curriculum content that hap a	22	21		ďο.
23	22		religious basis.	23	22		And religious alternatives are simply one
24	23	Ä	Yes.	24	23		of any number of ways in which this falls out. As
25	24	Q	is that ⊌hat you mean by	25	24		I said, we had blinders with regard to gender and
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	PAGE	54 _		_	PAGE 56	
1	00054			<u>.</u> 1	00056	
2	1	ă.	Yes.	2	1	race and ethnicity up until just a few decades ago.
3	2	Q	religious voices ?	3	2	We didn't see that that wasproduced an illiberal
4	3	A	Yeah. Including texts. One of the important	ii 4	3	education.
5	4		points that I want to make is that educators much	. 5	4	I make that argument with regard to
6	5		thatthat public-school education; at least in	6	5	religion in particular, but also oftentimes with
5	- 6		secondary schools, should be more like, ideally	1	6	regard to secular moral views, for example, inin
8	7		there are various kinds of practica, problems, but,	ļθ		some disciplines, that there'sthat there's
9	8		ideally, should be more like undergraduate	9	В	moralthat there are moral perspectives on the -
10	9		education in using primary sources instead of	]]0		the issue at hand, like in economics, that get
11	20		relying so heavily on textbooks.	11		filtered out by our effortby the effort ofof
12	11		Primary sources are written from within	12		the economic establishment to insist that -as the
13	12		various traditions, so that everything isn't	13		mational economic standards do -that only
2.4	13		screened through the the filter of a textbook	14	13	neoclassical economic theory be taught. And
15	14		writer, who puts his or her own spin or -or	15		that'sthat's just a travesty of liberal
16	15		understands everything inin terms of some	16		education, that economics can't consider moral
17	16		prevailing paradigm within that ∙that discipline.	17		Frameworks forfor understanding justice in the
18	17		That students need to be exposed to the primary	18	17	economic domain because we've got to teach students
19	18		sources, to the voices of people within the	19		thatthat everybody is a self-interested utility
20	19		differing traditions.	20		naximizer.
21		Q	And 'voices'you mean the writings?	21	20	So the point always is toto get the
22		,	The writings.	22		disciplines to broadep themselves in a way that
23		Đ	akay.	23	22	acknowledges dissenting voices on the borders of
39		À	That's right. It's- voices clearly, it's a	124		those traditions and opens students to
25	24		metaphor, yes.	25	24	relationships between the establishment views in

-		SHEET	15	PAGE 57	_	PAGE	59	
- 1	1	00057			1 1	00059		
	2	1		thein the discipline to other ways of making	Z	1	٠,٢	Uh-buh (yes).
- 1	3	2		sense of the world and of thethe particular	3	2	Q.	and imply, from philosophical naturalism, a
- 1	4	3		aubject at hand.	4	3		negation of any reality beyond the natural world.
- 1	5	4		Necelassical theory is sort of like the	5	4	λ	Մի-հատի (yes).
- 1	6	5		methodological maturalism ofof the sciences.	6	5	Q.	Do you agree with that?
4	7	6		There's a there's a real comparison there. I	7	6	Ā	Yes, I think so.
4	B	7		think most people would find- and certainly when	В	Ť	Q	Okay. Then you go on and say, "The educational
- 1	9	9		I've talked with groups of people and we talk	9	8		problem is that unless students are made clear
-1	ŀŀ	3		through thisthat the kind of commitment to	10	9		about this distinction, they will inevitably
- 1	11	. 10		neoclassical economic theory in economics isnost	11	10		conclude that science does tell us everything that
- 1	12	11		people find appalling, other than professional	12	11		there is to be said about cature, and God plays no
1	13	12		economists. And of course, people are something	113	12		role in mature. What is your basis for that
	14	13		core than that. Of course, justice questions	14	13		statement?
-1	15	14		should be involved inin economics.	15		λ	[Examines paperwritings.] I wouldn't write that,
- 1	16	15		So, that kind of that's part of my work,	16	15		first of all, the same way, if I were going to do
- 1	17	16		too, that the kind of battles that we're looking-	17	16		that again, because that simplifies whatwhat
-1	18	17		atthe kind of questions we're looking at in	18	17		mymy argument is. And the problem is this: We
- 1	13	18		science also occur in other disciplines.	1:9	1.8		can draw that distinction, methodological and
- 1	20	19		(DISCUSSION OFF RECORD)	20	19		philosophical naturalism, in principle, eagily
•	21	20	Q.	On Page 4, you have a paragraph that begins, 'It is	21	20		enough. And that's fairly straightforward. I
-1	22	21	-	true that we can distinguish, in principle, between		21		don't thick
- 1	23	22		a methodological maturalism"	23	22	Q	And we can explain it to students, too.
ı	24	23	À.	(Examines paperwritings.) Vh-buh (yes).	24	23		We can we can explain it to students. The problem
- 1	25	24	Ð	and a philosophical naturalism. Mould you	25	24		is that it's a we don't explain we don't explain
1			-	<i>,</i>				· · · · · · · · · · · · · · · · · · ·
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. 3	00058			. 1	00060		
- 2	ī		agree that the methodological maturalism that you	2	1		it to students in ain a compellingin a
3	2		refer to there is what we have been referring to as	3	2		compelling way. And to do it in a compelling way
4	1		classical science or traditional science?	4	3		to get them to see the point of it is, I think,
5	4		MR. GTLLEN: Object to the form.	5	4		difficult to do.
- 6	5	À	The "traditional" and the 'classical' seem to me to	6	5		And granted, youyou canyou can make
1 7	6		he not the right words to use, because classical	7	- 5		the distinction in- in two sectences. Okay. But
[ B	7		and traditional science did involve designhave	B	7		then we go and teach them for a semester or an
9	8		design explanations.	9	8		academic year, using science understood in terms of
10	9	Q	Ny	10	9		methodological naturalism, and that two-sentence
11	10	Ä	It's peculiarly modern science	111	10		explanation of the distinction gets lost because
12	11:	Q	Nodern science.	12	11		because of the overoverriding power of of what
13	12	λ	that wants to dispense with	13	12		they learn afterwards through their whole study of
14	13	Q	Okay.	14	13		science.
15	14	λ	naturalisticor design explanations.	15	14		Now, that's not to eary that it imp't
16	15	Q	So 'methodological caturalism' would be another way	15	15		important to draw that distinction. It is
17	16		of referring to modern science?	17	16		important to draw that distinction. It's just that
39	17	A.	Ieah.	18	17		that doesn't really go very far. It doesn't go
39	18	<b>D</b>	And	1)9	18		nearly far enough to really get students to grapple
29	19	λ	The dominant view, yes.	20	19		with the -with the kind of philosophical issues
21	20	Q.	And the philosophical naturalism, you say, denies	122	30		thatthat underlie the distinction, which isis
20	21	-	that there is any design or supernatural causes in	22	21		part of what a liberal education should do, and.
123	22		the world.	23	22		and to show bow drawing that distinction relates to
24	23	λ	In reality.	24	23		these larger questions about our cultural
25	24	Q	But I would take it further	25	24		disagreements over the extent to which science can
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	SHEET 16	PAGE 61	_	PAGE	63	
' 1	00061		d)	00063		
, 2	1	explain reality.	[ 2	1	Q	in that last enswer to necessarily be a reference
3	2 G	You say unless students are made clear, quote,	ŀί	2		to what we've been talking about as intelligent-
4	3	they will inevitably conclude that science does	4	3		design theory.
5	. 4	tell us everything that there is to be said about	5	ŧ	A	Oh-hoh (yes).
6	. 5	nature, and God plays no role in nature."	6	5	Q	Did you understand it to refer to intelligent-
7	6 A	Yeab. Well	7	5		design theory, or, more broadly, to the question of
8	7 Q	Why do you say they will inevitably conclude that?	B	7		a transcendent god providing a purpose in life
9	6	What is your basis?	9	8		MR. GILLEN: Objection to form.
10	9 A	II should have said they will naturally conclude	10	9	Q	oror in reality?
111	10	that, because II suppose it isn't ineritable that	11	10		I'm not sure that I understand the question.
12	11	they will conclude it. But that will be the the	112	11	Ď.	Okay. We've been talking design, I think, in two
13	12	natural conclusion: Well, science doesn't tell us	113	12		different senses.
14	13	anything aboutandand when I said that I	14	13		Մո-հահ (yes),
15	14	wouldn't have written it the second way, II	15	14		One is the narrow, inferential, explanatory
16	15	wouldn't haveI wouldn't have written it the game	15	15		Մահ-եռած (yes).
1.7	16	way if I were doing it now, because II see a	17	16		sense of intelligent-design theory
18	17	complication that obviously didn't occur to me when	18	17		Right.
19	18	I wrote it. And that is, it's not just that God	19	18	Q.	- and the other is and perhaps we haven't been
20	19	plays no role in mature, but the design plays no	20	19		talking about it, it's only me thinking fuzzily
21	20	role in nature. And Iand I want to be very	21	20		about itdesign in the sense of a purpose
22	21	careful to distinguish those two questions.	53	21		9h-hmh (yes).
23	22	And students learnwe require them to	23	22		of reality
24	23	take, if they're going to university, four years of	24	23		ՄԻ- Իայի (yes).
25	26	acience in high actual	25	24	Q	<ul> <li>that purpose being informed by a transcendent</li> </ul>
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	PAGE	62		_	PAGE	64	
1	00062			. I	00064		
2	1	<u>Q</u>	CanI want to focus on high school here.	1 2	1		goð.
3	2	Ā	Yeab. Pour years of of high	1	2		MR. GILLEM: Object to form.
4	3	g	Okay.	II á	3	Q	Is that consistent with your understanding?
l s	4	Ā	bigh-action science, and four years of science	1 5	-	Ā	So, there are three possibilities here. One is the
6	5	•	shaped by methodological maturalism. And itit	1 6	. 5		narrowest sense that - where a actemptat might
1 7	6		conveys to them, unless a good deal of time and	11 5	6		suggest a design explanation with regard to some
8	ž		effort is spent, the idea that science can actually	ll à	ž		fairly discrete phenomenon how cells work, for
وا	Á		tell us everything that's to be said thout nature.	و اا	9		example.
10	ģ		. Andand that's controversial. And that	110	9		And them secondly, there's a larger
111	10		inevitablymaturally, at leastslides over into a	lii	10		question about whether that provides some kind of
112	11		kind of philosophical naturalism. The only way to	12	11		evidence for claims that there is a purpose in
133	12		avoid that is to give them some kind of substantive	13	12		nature that thator a design in mature.
14	13		examples of and which a liberal education	11	13		And them there's a third level, which is,
15	14		requires of how science might have limitations	15	14		how do we explain that design in nature? Do we
16	15		andand how design night figure into our	16	35		appeal to a supermatural godto a god or a
127	16		understanding of nature, or even how nature, as	17	16		supermatural being who causes it?
118	17		understood by modern acience, might relate to God.	18	17		My argumy position is thatof course,
19	91		MR. WilCOI: May I have that repeated,	19	18		that you can make design explanations, and you can
20	19		just the last twenty words?	20	19		hold the position that there's design in mature
21	20		(Whereupon, the sentence at Lines 11 through 17	21	20		apart from any consitment, theological commitment,
23	21		on this page was read back.)	22	21		to a god or to a supermatural reing, that those are
23		Q	(By Mr. Wilcox) I did not understand your	23	22		distinguishableconceptually distinguishable kinds
24	23	•	reference to design.	121	23		ofof questions. All the time, inin our
35	24	A	Uh-huh (yes).	25	24		ordinary everyday relationships, and indeed in the
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_	SHEET	17	PAGE 65		PAGE	67	· · · · · · · · · · · · · · · · · · ·
1	00065			1	00067		
2	1		practice of science, we talk about things being	2	. 1		But there certainly are a variety of
1)	2		designed withwithout presupposing that that we	3	3		philosophical positions and very liberal religious
14	3		bave to use religious language or theological	4	3		positions which hold that there's design in the
5	•		language in doing that.	5	4		world but that it's not there because of a
6	5		So, certainly, we can talk of the idea of	6	5		supermatural god, the kind of god that's part of
7	. 6		design as conceptually independent of theof the	ן	6		orthodox religious traditions: Aristotelian views:
8	7		idea of God. But, of course, when we talk about	ß	7		process-theology, process-philosophy views; some
9	8		the design inherent in cells or in fine-tuning	9	B		feminist views of mature.
10	9		after the Big Bang, of course, the big question is,	10	9		So-eo-wand again, I want to draw that
11	10		kow does that design get to be there? But it's	11	10		sharp distinction between design on the one hand
12	11		still a conceptually discrete question. You don't	12	11		and supermaturalistic religion on the other.
13	12		tave to have a religiousyouyou camyou cam	13	12		Design is supermaturalistic in sease "B." Design
14	13		still bave evidence for and a make a good argument	14	13		ian't allowed, given the constraints of
15	14		for design without having any kind of theological	15	14		methodological or philosophical maturalism, but you
16	15		or religious commitments, it seems to me.	116	15		can still have design without connitting yourself
17	16		So IF want to be careful to distinguish		16		to supernaturazian "A," which is a designeran
16	17		design questions from religious questions. And	18	17		independent supernatural god. Next question.
19	18		and that's what allows me to say that design	19	18	Q	Do you know of any intelligent design theorists who
20	19		questions should be allowed in a squewbat enlarged	20	19		are not also practicing Christians?
21	20		science. That doesn't run us the risk of making	21	20	A	I don't know the religious backgrounds of many of
22	21		ecience into a quasi-religious endeavor or a	22	21		them. I know Behe's a Catholic. I don't know if
23	22		theological endeavor.	23	22		be's a good Catholic or a bad Catholic. That's his
24	23 Q	Į	Can you identify for us one intelligent-design	24	23		tradition. And I know that Phill:p Johnson has
25	24		theorist who claims that the source of the design	25	24		nade various kinds of remarks that suggest be's

1 2 3	PAGE 00056 1 2	66 A	-	was some extraterrestrial alien? Now, I know that Francis Crick argued that maybe	1 2 3	PAGE 00068 1 2	68	religious in some deep senge. But, 1 mean, that's all-about all I know about their private religious
1 4	3			life arose here as a result of intelligent beings	11 4	3	_	views.
5	9			elsewhere in the universe sort of implanting it.	. 5		Ð	You pose the question, in your report, at the top
7	5 6			But he, of course, wasn't am intelligent-design theorist.	1 5	5		of Page 5, "Is Iff science?"
هٔ ا	7			I quesa I quat dom't- I dom't see the	11 .	7	À	Uh-hoh (yes . Apd you suggest, quots, "Arguably, what should be
وُ	é			point. No, I mean, intelli-but intelligent-design	وا	á	¥	taken seriously as science is in part, at least, a
10	9.			theorists claim that in theclaim that they can	10	9		matter of what good scientists take seriously.
111	10			dothat they can make design arguments apart from	111	10		That strikes me as fairly circular. How do you
12	11			theological convictions or or cosmitments. And	12	11		identify what is a good scientist if you don't have
13	12			that makes perfectly good sense to me.	13	12		a notion of what science is?
14	13			Undoubtedly, some, maybe many, maybe most		13	λ	Well, itit moves the focus from science in the
1.5	14			of all them, do have religious convictions. But	25	14		abstract to what particular individuals do. So,
16	15			still, you can distinguish thethe design	16	15		first of all, it's important to point out the 'is
17 18	16 17			argument, the evidence for the design argument,	17	16		in part, because it's in part a matter of
19	18			from the theological position which they may or	.1B 19	17 18		something else, which is philosophical
20	19			they may not hold. So that intelligent design as science doesn't imply or require any kind of	1 20	19		considerations.  But one way ofof deciding what good
21	20			religious worldwiew or conviction. [tit may well	21	20		science is is to look at what scientists do, and
22	21			be that the only way or that the best way-maybe I		21		that shifts the focus: Okay, then, what makes for
133	22			should say 'the best way." It may well be that the		22		a good scientist? And-and the answer there is,
24	23			best way of explaining the design is in terms of a	24	23		given our ordinary understanding of science, it's
25	24			supermatural god.	25	24		specody who a gotten a Ph.D. from a research

	SHEET	18	PAGE 69			PAGE	71	
T	00069			•	l î	00071		<u></u>
2	1		university, who perh	aps teaches im research	[ 2	1		still accept an awful lot even of evolutionary
1 3	2			blishes in journals, and who	3	2		science, even if you reject natural selection as an
1 4	3			credentials. And then what	4	3		adequate mechanian for explaining evolution.
ءَ ا	. 4		those folks do is i	s define good science for us.	5	•		So: so, I mean, that's another
6	5		Some of th	je falks with those kinds of	-6	5		comsideration. You don't have to give up all kinds
1 7	6		credentialsnot man	ny, but a significant number	7	6		of things, all kinds of aspects of science, to be a
i a	7			ent-design theorists have	В	7		good Intelligent-design theorist. You can still
9	8		Ph.D.s from good, re	putable research universities	9	. 0		bang onto minety-five percent of ecience or minety
10	9		and teach in research	Å universities, have published 📗	10	9	•	percent of biology, even if you- if you say matural
11	10		some in- in the peer	r-reviewed journals, and and	]11	10		selection is ais a mechanism that doesn't allow
12	11			-they know establishment	12	11		us to explain everything that needs to be
13	12		science inside and o	out, and yet they have come to	13	1.2		emplained. That's important, I think.
] 14	- 13			ological maturalism is too	14	13		In answering the question "Is IDT science?"
115	14		restrictive, that it	's aa kind ofwell, it's in 🚪	15	14		Մո-հան (yes).
16	15			ientific fundamentalism that 👚 🚦	16		Q	you suggest several teats or aids.
17	36		doesn't allow design	n explamations to be takes	17	16	A	Yeah
18	17		seriously.		128	17	Q	The first is: "How many scientists take IDT
19	18			so one of the ways of defining	19	18		seriously?" Here, do you have in mind absolute
20	19			s is to see what acientists with	20	19	_	munbers, or a percentage, or whether any
21	20			l of credentials end up doing.	21	20		₩c.
22	21			nt, I think, that these aren't	22		Ō.	scientista
23	22			Hible colleges or that rely for	23	22	A	IIthere'syou know, it's sort of like "What
24	23			of mature onon Gemeals, but	24	23		age do people become responsible buman beings?
25	24		that they are thoro	ighly and totally at bome in	25	24		You know, I mean, there's no magic mumber. The
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П	00070	<u>`</u>	1	00072		· •
			2	· 1		the question is-for me, is: Is there a
- } ;	2		3	2		significant debate?"
- 1 7	3		1 4	3	Q	If there's one and you believe it
		part of thetheone of the criteria I1 say: To	1 5	4	A	"Is there a significant"
- 1 2	1	what extent to the does the theory draw on	6	5	Q	is that significant?
-13		accepted science? And it's important for me that	1 7	6	λ	Well, you know, if the one turns out to have been
Πi	_	intelligent-design theory doesn't require us to	ĺ	ž		Conernicus, you know, that's significantor
- 1 3		give up carbon-14 dating, and belief in dinosaurs,	وا	Á		Galileo, or semebody who goes against the or
10	_	and a thirteen-billion-year-old universe, or a	110	ğ	Q.	So by "significant," you don't mean some number;
11			13	10.		you 2680
			12	11		There's no magic number, oo. But on the other
17			13	17	••	hand, you know, if it were just the point of view
1.			14	13		of one person, I don't see that textbooks and the
14			15	14		curriculum would need to take it seriously. It's
15			16	15		gotthere has to be some significant number, and
14		gelection.		16		the idea has not to be of significant importance.
1			119	17		You know, in any place in the curriculum,
11			19	18		you can't include all the ideas and all the points
1			20	19		of view, so which ones do you include? By and
21				20		large, you include the most-important ones. I
- 13			21			would say you should also include the most-
23			1 -	21 22		controversial ones, the ones that that have the
20			23	23		greatest significance in the larger culture.
2:		say that natural selection is imadequate for	24			
2.	24	explaining everything that happens. But you can	25	24		And so the this debate certainly ties
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1	00073		<b>.</b>	1	00075		<u>1</u>
2	1		into culture-wars debates. It does that in part.	2	1		Row familiar are they with establishment 🖠
1 3	2		But it alsoand more importantly, more	3	2		acience? What kinds of credentials do they have
4	3		relevantlyties into, ( think, important	4	3		because of their-their educations and things that
5	4		discussions on the edges of science about bow to	5			they might have published apart from-from ID7?
6	5		define science, and to a tremendously important	6	5		And it's a more-or-less kind of question. That's
ĺż	6		question of whether there's design in mature and in	7	. 6		relevant toto judgingandand again, how much
l i	7		the world.	8	7		of establishment science do they have to reject?
وا	8		Now, that's a perennial philosophical	9	8		If you're a creation an old-fashioned
10	9			10	9		creation scientist and have to give up carbon-14
11	10			11	10		dating, and the age of the earth, and dinosaurs,
12	11			12	11		and all kinds of other things like that, you know.
13	12			13	12		that's an argument for saying that just cam't be
14	13			14	13		considered science. But I take it that most of the
15	14			15	14		JOT people don't do that, that they accept an awful
16	15			16	15		lot of science.
17	16		performing experiments is is relevant, it can also	17	16	Q	Do they accept that man evolved from lower life
18	17			18	17	_	forms?
119	18 (	)		19	. 18		MR. GILLEM: Object to the form.
20	19	•	this.	29	19	A	I don't know. I suppose I have to say I don't know
21	20 3	Ł	Okay.	21	20		the answer to that. I know in -in at least a few
22	71 (			22	21		casesI mean, Behe, I know, accepts evolution;
23	22		IDT meriously	23	22		he's an evolutionist. And as a matter of fact, he
24	23 8	3	th-bull (yes).	24	23		saidin a New York Times piece this spring, be
25	24 (	)	- What is (or has been) their standing within	25	24		says most IDF theoriets are evolutionists; it's
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1	00074			; 1	00076		
2	ļ		establishment adience?"	. 2	1		just that they think the design has to enter into
1 3	2	A	Yeah.	§ 3	2		the question of evolution. So, in some sense, yes,
4	3	0	Other than Michael Bebe, can you identify for us	1	3		we descend from other life forms. (t's just that
İŝ	4	•	one intelligent-design theorist who has a standing	1 5			you can't explain that evolutionary process in
6	5		within establishment science? I'm not talking	1 6	5		neo-Darwinian termsor you can't explain it fully
1 7	6		about mathematics; I'm talking science.	1 7	6		in mec-Darwiniaa terms.
8	7	A	1I quesa, if the question is "Are there peop!e	ll i	7	0	Do IDT theorists bond to believe that the great
وا	ē	••	who established a relationship and published in	وَ اا	B	-	majority of Species weresuddenly appeared
10	وَ		science before they became intelligent-design	110	9		MR. GILLEN: Objection to form. Spec
lii	10		theorists? II don't know. You know, about the	llîĭ	10		BOTTY.
12	11		best that I can do in response to that question is	12	11	G.	with no record in the fossil record?
13	12		to say I'm not a scientist, and I do observe this	13	12		I
14	13		debate more through the kind of general literature	14	13	-	MR. GILLER: Objection to form.
115	14		than through my reading of scientific journals or	15	14		Speculation.
116	15		the sciencethe science itself.	16	15	λ	I - I don't know.
117	16	0	You continue: 'What kinds of research bays they	17	16	õ	Do you remember reading that in Pandas and People?
ii	17	¥	done?" 1I assume here you're talking about IDT .	18	17		No.
119	16		scientiats and what kinds of IDT research have they	129	18		You pose the question "To what extent does the
20	19		Gores	20	19	*	theory draw on accepted science?" "Draw on" is a
21	20	A	No, not necessarily. Have they donebut here,	21	20		little vegue. Is it your view that intelligent
22	21	-	it's important - again, I mean, anybody who gets a	22	21		design draws on methodological maturalism?
23	22		Ph.D. from a research university is going to	20	22	ı	It certainly draws on - I mean, it certainly draws
24	23		havehave done research in establishment science.	24	23	-	onon other aspects of science. And insefar as
25	24		and so that's crucial.	25	24		as pretty much all science is defined by
1 - 3	47		and an contra citetal.	'	47		as precey made and access, is detined by
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SHEET 26 PAGE 77  1 00077  2 1 methodological naturalism, it certainly draws on the conclusions of that science to-as-as part of the conclusions of that science to-as-as part of the conclusions of that science to-as-as part of the conclusions of that science to-as-as part of the conclusions of that science to-as-as part of the conclusions of that science to-as-as part of the conclusions of that science to-as-as part of the conclusions of that science to-as-as part of the conclusions of that science to the concentration which it appeared? Was a paid ad, or an Op-Bd submission-to-accordance to the concentration which it appeared? Was a paid ad, or an Op-Bd submission-to-accordance to the concentration of the concentration which it appeared? Was a paid ad, or an Op-Bd submission-to-accordance to the concentration which it appeared? Was a paid ad, or an Op-Bd submission-to-accordance to the concentration which it appeared? Was a paid ad, or an Op-Bd submission-to-accordance to the concentration which it appeared? Was a paid ad, or an Op-Bd submission-to-accordance to the concentration which it appeared? Was a paid ad, or an Op-Bd submission-to-accordance which it appeared? Was a paid ad, or an Op-Bd submission-to-accordance which it appeared? Was a paid ad, or an Op-Bd submission-to-accordance which it appeared? Was a paid ad, or an Op-Bd submission-to-accordance which it appeared? Was a paid ad, or an Op-Bd submission-to-accordance which it appeared? Was a paid ad, or an Op-Bd submission-accordance which it appeared? Was a paid ad, or an Op-Bd submission-accordance which it appeared? Was a paid ad, or an Op-Bd submission-accordance which it appeared? Was a paid ad, or an Op-Bd submission-accordance which it appeared? Was a paid ad, or an Op-Bd submission-accordance which it appeared? Was a paid ad, or an Op-Bd submission-accordance which it appeared? Was a paid ad, or an Op-Bd submission-accordance which it appeared? Was a paid ad, or an Op-Bd submission-accordance which it appeared? Was a paid ad, or an Op-Bd sub	
the conclusions of that science toasas part of its case.  I mean, again, to think of Bebe, be doesn'tyou know, this doesn't come all cut of the blue, his theory. He'she locates his design arguments in the context of very deeply textured understandings of the cell, which is drawn from  from establishment science. So it'sit's not, again, like the oid-fashioged creation sciencially and nake arguments that are unrelated to traditional oror undern establishment science. It is traditional oror undern establishment science. It is traditional oror undern establishment science. It is now.  It again, it just seems to me to be quite a lit a paid ad, or an Up-Bd submission  it a paid ad, or an Up-Bd submissio	- ( :
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7 6 blue, his theory. He's—he locates his design 8 7 arguments in the context of very deeply textured 9 8 understandings of the cell, which is drawn from— 10 9 from establishment science. So it's—it's not, 11 10 again, like the old-fashioged creation scientists, 12 11 who dismiss so much of establishment science and— 13 12 and make arguments that are unrelated to 14 13 traditional or—or undern establishment science. 15 14 It—again, it just seems to me to be quite a  7 6 Q Okay. And do you know who paid for the ad? 8 7 A Mo. I could guess, but, no, I don't know. I 9 8 don't—I don't remember. 10 9 Q The Discovery Institute? 11 10 A I—that would be my guess, but I— 12 11 Q Okay. 13 12 A —don't know. 14 13 MR. WILCOI: Off the record. 15 14 (DISCOSSION OFF RECORD)	1 :
3 7 Arguments in the context of very deeply textured 3 8 understandings of the cell, which is drawn from- 10 9 from establishment science. So it'sit's not, 11 10 again, like the oid-fashioged creation scientists, 12 11 who dismiss so much of establishment science and- 13 12 and make arguments that are unrelated to 14 13 traditional or-or undern establishment science. 15 14 Itagain, it just seems to me to be quite a  8 7 A No. I could guess, but, no, I don't know. I 9 8 don'tI don't remember. 10 9 0 The Discovery Institute? 11 10 A Ithat would be my guess, but I 12 11 0 Okay. 13 12 Adon't know. 14 13 NR. WILCOI: Off the record. 15 14 (DISCOSSION OFF RECORD)	- 1 (
9 8 understandings of the cell, which is drawn from- 10 9 from establishment science. So it'sit's not, 11 10 again, like the oid-fashioned creation scientists, 12 11 who dismiss so much of establishment science and- 13 12 and make arguments that are unrelated to 14 13 traditional oror undern establishment science. 15 14 Itagain, it just seems to me to be quite a  9 8 don'tI don't remember. 10 9 0 The Discovery Institute? 11 10 A Ithat would be my guess, but I 12 11 Q Oway. 13 12 Adon't know. 14 13 MR. WILCOI: Off the record. 15 14 (DISCOSSION OFF RECORD)	11
10 9 from establishment science. So it'sit's not, 11 10 again, like the oid-fashioged creation scientists, 12 11 who dismiss so much of establishment science and- 13 12 and make arguments that are unrelated to 14 13 traditional oror modern establishment science. 15 14 Itagain, it just seems to me to be quite a  10 9 Q The Discovery Institute? 11 10 A Ithat would be my guess, but I 12 11 Q Okay. 13 12 Adom't know. 14 13 MR. WILCU: Off the record. 15 14 (DISCOSSION OFF RECORD)	1 :
11 10 again, like the oid-fashioged creation scientists, 12 11 who dismiss so much of establishment science and- 13 12 and make arguments that are unrelated to 14 13 traditional oror modern establishment science. 15 14 Itagain, it just seems to me to be quite a  11 10 A Ithat would be my guess, but I 12 11 Q Okay. 13 12 Adom't know. 14 13 MR. WILCUI: Off the record. 15 14 (DISCUSSION OFF RECORD)	-1 :
11 10 again, like the old-fashioged creation scientists, 12 11 who dismals so much of establishment science and- 13 12 and make arguments that are unrelated to 14 13 traditional oror modern establishment science. 15 14 Itagain, it just seems to me to be quite a  11 10 A Ithat would be my guess, but I 12 11 Q Oway. 13 12 Adom't know. 14 13 MR. WILCUI: Off the record. 15 14 (BISCUSSION OFF RECORD)	-110
13 12 and make arguments that are unrelated to 14 13 traditional oror modern establishment actence. 15 14 Itagain, it just seems to me to be quite a 16 17 Itagain, it just seems to me to be quite a 17 18 Itagain (BISCOSSION OFF RECORD)	11
14 13 traditional oror undern establishment science. 14 13 MR. WILCOI: Off the record. 15 14 Itagain, it just seems to me to be quite a 15 14 (DISCOSSION OFF RECORD)	12
15 14 Itagain, it just seems to me to be quite a 15 14 (DISCOSSION OFF RECORD)	1.3
10 17	114
	15
16 15 different kind of - of thing.   16 15   NR. WILCOI: Okay. Back on.	16
17 16 Q tet's try to get at this another way, perhaps. Do 17 16 Q (By Kr. Wilcox) You continue in your list of aid	11
18 17 you understand intelligent design theory to be a 18 17 or tests: "To what extent is it on ad boc theory	14
19 18 testable and tested hypothesis? 19 18 A Ub-hub (yes).	13
20 19 k Yes, although the tests certainly would be somewhat 20 19 0 Tou'd better explain what you mean by that for me	. 24
21 20 different from those employed in methodolowithin 21 20 A (Examines paperwritings.) Well, the next sentence	27
22 21 a methodological maturalism. They may be 22 21 explains it. That is, 'Does it grow boosestly out	22
2) 22 statistical tests, like Dembski-Dembski offers, 23 22 of the swidence rather than out of prior	2.
24 23 or, you know, the notion of irreducible complexity 24 23 ideological or religious commitments? An	
25 24 that Behe uses. I mean, that's certainly that's 25 24 explanation thatthat really doesn't grow out of	2.
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	PAGE	70			PAGE	an	
1	00078			. 1	00080		
2	1		it's a way of testing an idea, but it's not the	II à			evidence but grows out of convictions that someone
3	2		the standard way of of methodological naturalism.	3	-		already has would be an ad boo theory.
1 1	3		Thethe arguments for fine-tuning ioio	4		Q	Okay. So those are two commedted
5	ă		cosmology, again, rely on very sophisticated kinds	ءَ ا		Ā	Yes, that's right.
١٠	5		of mathematical and statistical analyses to suggest	Πé		Q	questions?
- 1 5	6		that the nature of our universe the idea that it	ĺγ		Ā	I should have said, "That is, does it grow out,"
ية ا	7		is by accident the kind of universe that produces	ll a			butandand let meIis your question does
Į š	É		life isare extremely improbable. Well, I mean,	وَ اا	ė		designis design theory ad bor? No.
10	9		that's a way of testing, I think, a design claim,	10	_	Q	I'm going to go to the next
11	10		but it's not the way of testing that's found, I	13		À	All right. I'll wait for your question.
12	11		think, in much science. Although here I'm really	12			question. To answer whether it grows homestly
13	12		going beyond what I can talk about, because I know	13		•	out of evidence imports a notion of
14	13		various kinds of accentists use various kinds of	14			trustworthiness
15	16		statistical analyses to -to support causal claims,	15		A	Yeah.
16	15		for example. So Iyou know, I probably should	16		o	that I'm not sure I can address. Do you feel
117	16		acknowledge by limitations, though I	17	16	•	that you have insights as to the bonesty vel ood of
18	17	0	Okay. Tou referred earlier to seeing a list of two				the IDT theorists?
19	18	٧	or three hundred cames-	19		A	I don't have any deep insight into
20		λ	Tes.	20		Q	Okay.
21	20	Ö	in, did you say, The New Republic?	21	20	ì	into their homesty, or into the homesty, I should
22	21	Ă	I know The New Republic, andand Iay impression	22		-	pay, ofof
23	22	п	is that that list appeared in a couple of other	23		Q	Neo-Darwinists?
24	23		places, maybe The New York Times. [[ saw it in	24	23	Ă	some meo-Darwinists. Yhat's right.
25	26		The New Republic.	25	24		Ohay.
1-3	- 4		THE NEW REPUBLICA	1123	••	٧	wajt
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_	SHBBT 21	PAGE 81		PAGE	83	
'ı	00081		1	00083		
. 2	1 A	'Cause you can make the same kinds of arguments	2	1		that question isn't opened up for discussion,
3	2	inin either case. I meap, people say that	3	2		thenthem you get what I call scientific
- 4	3	that a lot of people say that design theorists	4	3		fundamentalism, whereby students are expected to
5	4	theory really grows out of religious convictions,	5	4		accept methodological naturalism more or less as a
6	5	and some people say that neo-Darwinism really grows	6	5		matter of faith, or, that is to say, of trust in
7	6	out of atheistic convictions.	1	6		the scientific establishment, rather than any kind
В	7	DazwinDarwin himself couldn't believe	. 8	7		of reasoned conviction about it.
9	8	in a personal god after the death of his ten-year-	9	8		The only way toto have a rea reasoned
10	9	old daughter. You know, does that have something	10	9		position on methodological maturalism is if you
11	10	to do with the fact that he now can exthatthat	11	.10		understand something of the alternatives or the
12	11	he wants to come up with an explanation of the	12	11		the debate about the adequacy of methodological
13	12	world independent of a - of a theistic god? I don't	13	12		satoralmethodological natoralism going on in our
14	13	know. My suspicion is that probably Darwin's	14	13		larger intellectual life.
15	14	theory did grow out of amot out of his rebis	115	14	Q	To some extent, intelligent design theorists
16	15	personal rejection of a religious god. But	16	15		reference things like Mount Rushmore.
17	16	certainly there are some neo-Darwinians who	17	16		Teah.
18	17	probably hold their views at least in part because	18	17	Ò	You're familiar with that
19	18	they can't tolerate the idea of a god.	19	18	λ .	
20	19	So bow do you assess the honesty? I	-20	19	Ď	sort of "I know it when I see it"?
21	20	don't know. Certainly, many neo-Darwinians, I	21	20		Mi-min (yes).
22	21	think, come to their views because that's their	2.5	21	Q	That, of course, presupposes that the intelligence
23	22	best reading of the evidence, rather than out of	23	22		underlying the design is an intelligence much like
24	23	any kind of prior religious convictions. And I	126	33		human intelligence, doesn't it?
25	24	and I suspect that at least some IDT theorists,	25	24	¥	Teah. Well, I mean, that analogy does, yes. Or by
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1	GC082			1	GC084		
2	1		maybe most of them, also come to their convictions	2	1		analogy, yes.
3	2		out of an independent assessment of the evidence.	3	2	ů.	Which compotes that man is created in the image of
9	3		Maybe they're open to design explanations because	4	3		God, does it not?
5	4		of religious convictions that they have, butbut	5	4	ă.	Mell
6	5		that's a different question from whether those	6	5		MR. GIGLEN: Object to form.
7	6		religious convictions actually drive or shape their	1	- 6	A.	no, because, again, I want to distinguish between
8	7		conclusions as acientists.	8	Т		supernaturalism "A" and supernaturalism "B" simply
9	8	Q	Okay. You continue that "whether or not IDT is	. 5	8		because there are some folks in the history of
10	9		good science is in part, at least, a philosophical	10	9		thought who are supermaturalists "A," and there are
11	10		question.	11	10		some folks who are supermaturalists "B," andand
12	11	À	Yeah.	12	11		intelligent design is compatible with either.
13	12	Q	And you then state, "Modern science has prided	13	17		It doesn't require Cod understood in
14	13		itself on its openness to new evidence and to the	14	13		traditional terms of Judaism, Christianity, and
15	14		potential falsification of its theories. Would	15	24		Islam. It could be simply the presence of design
15	15		you agree that modern science, however, is not open		15		in the universe in ways in which other philosophers
1)7	16		to different methodologies; it insists on	17	36		bave understood asas a possibility but that
138	17		Yes.	. 18	17		doesn't rely onon the idea of God. Soand
1:9"	19	0	methodological materalism?	19	:8		that's a crucial distinction. :) don't want to
20	19	À	Yes. And that then becomes the kind of	20	19		langwe don't we don't necessarily have to have
21	20		philosophical question that it's important for	21	20		God just because we have design.
22	21		sciencescientists themselves and students who	22	21	Q	I'd like to switch gears and talk about the
23	22		study science to be educated about: Is	23	22		educational value -
24	23		methodological maturalismshould methodological	24	23		I'm happy to switch gears.
35	24		maturalism define modern science? Because ifif	25	24	Ş	of the Dover Area School District
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	2.	ļ	Ä	- Dkay.	2	1		know what in particular the authors meant.
	3	2	Q.	update of the biology curriculum. The biology	[ ]	2	Q.	Well, let me just testsee if I understandstrike
	4	3	_	curriculum was updated to include a preliminary	4	3		that.
- 1	5	4		statement as follows, quote: "Students will be	5	4		I'd like to ask you if you have an
	6	5		made aware of gaps, slash, problems in Darwin's	6	5-		understanding as to the structure of this sentence.
4	7	6		Theory and of other theories of evolution,	lπ	6		One way to read it is that students will be made
- 1	8	7		including, but not limited to, Intelligent Design.	1 8	7		aware of gaps/problems in Darwin's theory and that
- 1	9	8		What are the do you have any understanding as to	¥	В		they will be made aware of gaps/problems in other
- E	Į.	9		what is meant by the 'gaps, slash, problems in	10	9		theories of evolution.
	11	10		Darwin's Theory'?	111	10	λ	Yes.
- 1:	ız	11	).	(Examines paperwritings.) I don't know whatsince	12	11	Q	Do you read it that way?
- 1:	13	12		I haven't read any literature or talked with any of	13	12		NR. GILLEN: Objection. Form,
	14	13		the peoplewhat the authors of that statement	I4	13		Speculation.
i:	15	14		mean. II can speculate as to what it might be or	15	14	λ	(Examines paperwritings.) I'm pussled as to that
- 1:	16	15		what I would take them to be, the the	16	15		sentence, too. I that seems to be do you want to
	.7	16		gaps/problems.	17	16		a suggest another reading to it?
- 1:	18	17	0	Would it, in your mind, be a reference to gaps in	18	17	Đ	Another reading might be "Students will be made
- 1:	.9	18		the fossil record, for example?	19	18		aware of gaps/problems in Darwin's theory, and
	20	19	à.	It could be. That's certainly one of the the	20	19		tbey"
- 1:	1	20		kinds of gaps that oftentimes are mentioned,	21	20	λ	And them made sware of other theories.
- 1:	22	21		particularly inin intelligent-design literature.	22	21	û	and then they will also be made aware of other
- 1:	23	22	Q.	And could it be also the difficulty that evolution	23	22		theories of evolution, including intelligent
- 1:	4	23		has in explaining the crossover from chemistry to	24	23		design. •
-  :	25	24		life?	25	24	A	Well, I suspect that's what it means because
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3	98000			1	00088		h
2	1	λ	That would certainly be one of the possibilities,	2	1	٥	The latter?
3	2		yes.	1 3	2	A	Right, probably, butbut I don't know.
4	3	Q.	Can you think of any other gaps, slash, problems in	4	3	٥	Okay.
5	4		Darwin's theory?	5		A	I den't keow.
6	5	λ	Well, I think another big one would be the	6	\$	Q	To your view, is intelligent design another theory
7	б		development ofof sexual reproduction. My	1	- 6		of evolution?
8	7		umderstanding is thatthis is nothing I'm am	8	7		전후: GILLEN: Objection. Porm.
9	8		expert on, but my understanding is that that does	9	8		Speculation.
10	9		create a large problem, how you get sexual	10		A	Weli, I mean, Imy impression is that at least
1.1	10		reproduction where only thehalf the genes ofof	11	30		some, Behe says most, intelligent design theorists
12	11		each parent become transmitted to the offspring.	12	11		accept evolution. The question is the mechanism of
1.3	12		that that's not what mep-Darwinian wowldwould	13	12		evolution. I don't know whether that's the case.
14	13		lead one to think should happen. So how do you-	I4	13		I: just don't know whether most intelligent-
15	14		how do you get bisexual reproduction? That might	15	14		design theorists accept evalution in in some form.
16	15		be one. I don'tI don't know.	16	15	_	Well, I don't know.
17	15		I mean, certainly, there are marticular	17	16	Q	Okay. So, if the school board had in mind that
19	17		kinds of cases, the things that Behe talks about,	1.0	17		intelligent design was an alternative theory of
19	18		in cellular biology and biology. There's	19	18		evolution to Darvinian theory
20	19		there's the kind of problem that Gould tried to	20	19		Vh-bub (γea)
21	20		address with punctuated equilibria, the rapid	21	20	Ō	you would say that that's not consistent with
2.2	21		transitions in evolution. I suspect that's	22	21		your understanding of intelligent design?
23	22		probably one. And then the absence ofof fossil	23	22		I'm sorry. Say that again? If
24	23		intermediate fossils in those kinds of cases. :	24	23		If the school board
25	24		suspect those are the kinds of things, but I don't	25	24	),	შზ-ხის (yes∣.
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\ 1	00089		•	1	00091		
, 2	£.	Q	noderstood that intelligent design was a theory	2	ì		disagree. And that may be in part a philosophical
3	2		of evolution	3	2		or a theological question. But that's different
4	. 3	Į,	Սb-buh (yes).	4	3		from whether there actually is design in nature.
5	4	Q	that stood in contrast to Darwinian	5	- 4		So I thinkI think Behe is an
6	5	À	Vb-bub (yes).	6	5		evolutionist. And I take it thatthat at least
7	6	Q	evolution, you would say that is not consistent	7	. 6		some other intelligent-design theorists are
8	7		with your understanding of intelligent design?	8	7		evolutionists; it's just that they reject the
9	8	λ	I guess what 1 want to say is that intelligent	9	8		geopeo-Darwiolam explanation for evolution.
10	9		design is certainly compatible with evolution, or	10	9	Q	Neo-Darvinian in the sense now that it's
11	10		manymany intelligent-design theorists, my	11	10		purposeless?
12	11		impression is, accept evolution but reject natural	12	11		MR. GILLED: Objection to the form.
13	12		selection as theas able to explain evolution.	13	12	A	Well, inin the sense that it relies on explaining
14	13		Butbut I justI don't know what that sentence	14	13		avolution in terms of natural selection acting on
15	14		resot.	15	14		the random mutation of genes, which is a
16		Q	And isn't it also true that many intelligent-design	16	15		purposeless, unguided process, yes.
17	16		theorists doo't accept that some aspects of	17	16	Q	Okay,
18	17		tiological life	18	17	A	That is, one that does not rely on design
19	18	),	Vb-buh (yes).	19	18		explanation or teleplogical causality. Teah.
20		Q	could not be the product of evolution?	20	19	Q	What is your understanding as to bow Bebe explains
21		1	I mean, certainly, there are some who believe	21	20		the origin of the bacterium flagellum?
22	21		that	22	21		Ob, I don't know. I can't explain that.
23		Q	Rebe, for example, doesn't use	23	22	٥	Or any phenomenon in life at all?
24		1	Yeah. That's right. Not the product of	24	23	A	Well, I mean[pause]
25	24		neo-Darwiniao evolution.	25	24	Q	What I'm getting at is: Isn't design theory
]				[			
1			The state of the s	1			
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	PAGE	90			. PAGE	92	
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2	1	Q	Of evolution at all?	2	1	A	Մո-Եսև (yes).
- 3	2		MR. GILLEN: Objection to form.	1 3	2	Q	a theory that design is manifest, without any
- 4	3	λ	No. I meam, I Lbink Behe isis ao evoluticoiet.	1 4	3		explanation as to bow it got there?
5	4		I mean, he says that.	5	4	A	Well, my impression is that most design theorists
6	5	Q	Coesn't his example of the bacterium flagellum	6	5		would say you can ideatlfy design and that it's
7	6	Ä	Well, the question is	7	é		another question how it got there.
9	7	Q.	posit that this organism is so irreducibly	H 8	7	Ġ.	and intelligent-design theory stops short of
9	8		complex that it could not have evolved?	9	ŝ		explaining how it got there, doesn't it?
10	9	4	No. No. I think his position is that it can't	10			Yes.
11	10		have evolved by meo-Derwinian mechanisms, that	11		Q.	The statement, curriculum statement, continues:
12	11		there must be design, but the design doesn't have	12			The Origins of Life is not taught.
13	12		to be a kind of miraculous intervention by a	[13		A	Teah.
14	13		supernatural god. And that's the point, again, in	[14	13	Q	Do you understand what that refers to?:
15	14		zy supernaturalian "A" and my supernaturalian "B."	15			MR. GILLEM: Objection. Foundation.
16	15		It could be that there is design implicit in	16			Speculation.
17	16		mature, there's teleplogical causation in mature.	17		λ	No, I don't. I dean, Iagain, I cam apeculate,
18	17		That's one of the possibilities. And Bebe says	18			but I don't don't know what that refers to.
19	18		ha g an evolutionist; he believes that evolution	19		Q.	What do you think it refers to, or don't you even
20	19		has happened; it's just that natural selection as a	20			thinkhave any thought on it?
21	20		sechanism can't emplain bow evolution took place,	71		3	Well, one possibility would be that simply the
22	21		that there has to be a design inin mature.	22			the · I mean, it could be that · - my - my understanding
23	22		Now, how that design gets into nature,	23	22		is that some textbooks have chapters or sections
24	23		again, is a complicated question, about which, I	24			that deal with the origins of life out of monliving
25	24		suspect, intelligent-design theorists will	25	24		matter, and if that's what we mean by "the origins
- 1			•	Ш			
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1 2 1 3	5HBET 24 00093 1 2	PAGE 93  of life," it could be that that question simply isn't addressed in thein thein the curriculum.	1 2 3	PAGE 00095 1 2	95	Soso, yes, ifif the reference is to the transition fromfrom conliving matter to
. 4 5 6	3 4 5	That's a gap in the curriculum. So that I mean, that may be the case. 1so that if that's what we mean by 'origins of life,' we just don't address	5 6	3 4 5	0	living matter, then there wasn't a Darwinian theory about that. Darwiniam only kicks in once you've got reproduction. So, if instead we read this as referring out to
9 10	6 7 Q 8 A 9 Q	that here inin our curriculum. Let me pages right there. Okay. And if you assume that that's what they mean	9	9	),	"origin of life" but to "origin of species" Origin of species andand how did buman beings come to be out of prebominids oror whatever, then
11 12 13	10 A 11 Q 12 A	Well, I don't know what they mean. That's But if you assume speculation.	11 12 13 14	10 11 12 13		it's true that intelligent design might well have - oror would have a different account of bow that story goes because of its willingness to use design explanations.
14 15 16 17	13 Q 24 A 15 Q 16 A	But if youif you speculate Yeeb. and that's a way of assuming Yeab.	15 16 17	14 15 16		If intelligent-design theorists are primarily gvolutionists, it's not really a different explanation for the origin of life, is it?
18 19 20	17 Q 18 19	that that's what they mean, would you regard that as a usefulhow do you promounce it?pedegogical approach, or is that counterproductive? For a	16 19 20 21	19	a Q a	MR. GILLER: Cojection to .  Oh, sure it is. Sure it is. It's only a difference from neo-Darwicism- Yes.
21 22 23 24		liberal education. For a liberal education. HR. GILLEM: Nice, Chub, nice. All right. You make meyou make me may that	22 23 24	2 <u>7</u> 22 23	Q A	not from Darwin's view, correct? No. MR. G11.LZN: Objection.
25		that'sthat's counterproductive. But theand I	25	24	À	It would also be from Darwin's view. And what
1						

1 2 3 4 5 6 7 8 9	PAGE 00094 1 2 3 4 5 6 7 8 9	94	can. I could—that's not the only possibility. The other possibility would be that—another possibility would be that they mean "We simply don't raise religious or philosophical questions about where life came from. We stick to science." I mean, it could usen that. That might be a somewhat naive view, but it—it could mean that, too. Diay. The statement continues, quote, "Intelligent Design is an explanation of the origin of life"—	1 2 3 4 9 6	2 3 4 5 7 6 7 6 7 8 9 8	96 .	Derwin didn't have was undern penetics. But Darwin still had natural selection, and that was the mechanism that he thought worked on chance variations. But he couldn't explain the chance variations, andand biologists couldn't till we get modern genetics.  But, still, for Darwin - Darwin says in his autohiography there's no more direction in evolution than in the way the wind is blowingquw dues he put it?there's no more design inin evolution than in the way the wind blows. And
16 17 18 19 20 21 22 23 24 25	23		santence that way, either. The point is-all right. If-if "the origin life" does mean how do you get from nonliving matter to-to hife, then there's no Darwinian explanation. And in fact, as: I understand it, that is a huge scientific mystery still. We-we just don't know how-how that happened either on grounds of methodological naturalism or maybe any other, other than religious or philosophical, I suppose. There are possibilities there.	1 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 17 9 18 0 19 1 20 2 21 3 22 4 23		the possibility for aa quite different account of how human beings come to be. Now, you Now, let me interrupt Okay. All right

SHEET 25 PAGE 97PAGE 99	
1 00099	
2 1 A fI think that neo-designpretty soon, we'll have 2 1 fine-tuning arguments that b	have received a lot of
3 2 neo-design theory. 3 2 discussion among cosmologist	ts and philosophers.
4 3 Q We already do.	
5 4 A litelligent-design theory is in its infancy, and 5 4 A At one end	
6 5 and, you know, maybeyou know, it say be it won't 6 5 Q Just so we areare communic	esting, "cosmology"
7 6 be long-lived. I - I don't know. But I don't think 7 6 meaning bow the universe got	t to
8 7 there's anything like a full-fledged, at this 8 7 A Tes.	
9 8 point, intelligent-design theory that what, 1 9 8 0 be the way it is?	
10 9 hean, Bebe coes is show that at the cellular level 10 9 h Yeah. In the wake o	of the Big Bang, the
11 10 there are various kinds of -of problems.   11 10 very extraordinary set of co.	
12 11 There are others - there are other gaps in 12 11 allowed - that made this univ	verse a universe that in
13 12 the evolutionary account that we talked about 133 12 the eod produces life. The-	the extent to which
14 13 earlier for which design explanations for 14 23 communicates and defenders of	
15 14 which we might find or appeal to design 15 14 worldwiew have to go to to	
16 15 explanations, butbut I don't think there's   16 15 idea usually requires the app	
27 16 anything like a Full-fledged intelligent-design 17 16 number of universes, which is	s an extraominary move
18 17 theory yet.   18 17 to make.	
	et a kind of plausible .
20 19 theorists have come up with is very suggestive 20 19 design argument out of fine-	
21 20 and and I think, significant, in part because of 21 20 fine-tuning. And om this en	
22 21 its implications, and particularly for its the 22 21 years later, there's there's	
23 22 questions it raises about the nature of science and 23 22 secular philosophers oftents.	
24 23 shether science needs to be defined more broadly. 24 23 explanations of the mind. Ge	
25 24 Q Cap we agree that, as you understand it. 25 24 religious, by any means, to b	believe that maturalism
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	2	]		intelligent design is not an explanation of the	1 2	1		is imadequate to emplain the mind, that you need
	3	2		origin of life in the sense of life going from	ΙĪ	2		that that mind is something that requires a quite
	4	3		innate chemistry to laving matter?	¥	3		different kind of explanation than modern science
	5	4	A	I don't think that there's a complete theory there.	5	4		and maturalism cancan provide.
	ε	5		There'sthat's my impression. Again, I mean,	6	5		So that at both ends of our thirteen-
	Ţ	6		I'mI'm a philosopher looking at this literature	ĺγ	6		hillion-year bistory, you've got design that that
i	В	7		from some distance, but my impression is that	В	7		oftentimes is is argued for on secular grounds
	5	8		there's not a complete theory of how design figures	9	₽		rather than religious grounds. So that the
Ì	10	9		in at all stages of evolution, that there are some	10	9		intervening stages of bow life came to be and and
	11	10		gaps, some problems for Darwinists, and there are	11	10		biological evolutionthatthat there are design
	12	11		some particular places where design looks like a	12	11		explanations which are now being made available
	13	12		pretty obvious explanation where there are no	13	12		seems to fit a larger pattern thanso, in part
	14	13		competing Derwinian explanations. So that there's	14	13		that's one of the reasons that I take it periously,
	15	14		kind of the sketch of aof an alternative theory	15	14		is that itit fits that larger pattern, and you
	16	15		that'sthat's available. But-but, obviously, a	15	15		dum't just look at theyou don't have to just look
	17	16		lot of work still needs to be done to fill in that	17	15		at the kinds of arguments that Behe makes about
	l8	17		sketch.	18	17		cells. That's an important piece of the puzzle,
	19	38		One other thing that I'd say here, too,	19	19		butbut the puzzle's a big puzzle.
	20	19		that seems to me to be important, axiand that is	20		_	Spanning thirteen billion years?
	21	20		that, I mean, one of the reasons that I take design	12	20	Ą	Spanning thirteso billion years, yeah, that's
	22	21		theory seriously as a possible explanation,	22	21		right.
	23	22		competing explanation, is that it seems to me that	23	22		MR. GILLEN: Let the record reflect it is
- 1	24	23		you can make a fairly strong case for design in	24	23		not a young earth.
- 1	35	24		cosmological evolution, the kind of anthropic	25	24		THE WITMESS: Yeah.
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' 1	00101		·	1	00103		· · · · · · · · · · · · · · · · · · ·
2	1	Q	The statement goes on to say, quote, The school	2	1		that there's an alternative. But it's not balanced
1 3	2		leaves the discussion of the Origins of Life to	3	2		iπ the sense of equalequal time, of course.
- 4	3		individual students and their families." In your	4	3	Õ	There's a sentence in the explanation at the
5	- 4		view, that is not a good thing, is it?	5	4		bottom: "The Superintendent has directed that no
6	5		MR. GJLLEM: Objection to form.	6	5		teacher will teach Intelligent Design, Creationism,
7	6	Ç.	Shouldn't a liberal education address discussion of	7	. 6		or present his or her, or the Board's, religious
8	. 7		origins of life?	9	7		beliefs." From that combination of references,
9	₽	у.	Yes. Butbut again, I don't know exactly what the	9	8		would you infer that intelligent design,
10	9		authors meant by	10	9		creationism, and religious beliefs, either by
13	10	Ð	Whichever they mean	13	10		teachers or the board, are all wrapped together as
12	11	y	teaching the origins of life.	12	11		of one mature?
13	12	Q	- whether they mean converting from innate	13	12	λ	No.
14	13	_	chemistry to living matter	14	13	_	MR. GILLEN: Objection. Speculation.
15	14	À	Yeah.	125	14	À	No. No. Iagain, I don't know, butbut that's
16	15	Ŷ	or whether they mean how speciation occurred	16	15		certainly not the way I would read it. That's a
17	16	À	Teah.	17	16		series of possibilities, and they don't all have
1,8	17	Q.	whichever they meant, you would think echools	18	17	_	toto be religious.
19		À	Well	19		Q.	Ohay. And them it continues
20	19	Ŷ	a liberal education should address it?	20	19	Ÿ	Okay.
21	20	, A	A liberal education should, and invariably does.	21	20	Q	The Dover Area School District supports, and
22	2I 22		It's just a question of whether it's implicit or	22	21 22		does not discriminate against, students and parants
24			explicit.	24	23		who have competing beliefs, especially in the area
25	23 24	¥	Them thisthere's an explanation, which reads, quote, "The foregoing statements were developed to :	25	24		of the Origin of Life dehate." That's a reference
123	24		thote, the rosegoing scatebeata were developed to	1149	43		to competing religious beliefs, is it not, the
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1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 22 21 22 21 24 25	PAGE 00102 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 22 23 24	A A	provide a balanced view.' Balanced among what, as you-as you understand it?  NR. GILLBN: Objection. Form.  Speculation.  Well, I suppose there are two ways of reading it. One is balanced between-well, let me say the way that I want-I want to read it. It's balanced between design views and neo-Darwinian views.  Now, obviously, it's not balanced, because the school teaches-the curriculum requires and the textbooks are full of neo-Darwinian evolution, so it's not balanced in the sense of equal time, and it shouldn't be. [I don't argue for equal time, But it isit's balanced is the sense that it acknowledges that there are alternative ways of understanding nature that—that—it acknowledges that there are alternative ways of understanding nature, so that students don't just think that the only explanation isis the neo-Darwinian explanation.  So, in a kind of minimal sense of 'balanced,' itit acknowledges that there's an alternative. It makes students aware of the fact	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 22 23 24 25	C010+ 1, 2, 3, 4, 5, 6, 7,	A Q A Q A Q A Q A Q A Q A	culture wars?  Well, competing beliefs wouldn't have to be religious beliefs. They could be naturalistic or secular or atheistic beliefs.  That's what I reference when I say 'the culture wars,' between- Ieah. Yeah. secular versus religious.  Okay. All right. All right. Teah. Iso't that how you understand this? This is a reference to the culture wars that we talked about Well, yeah, but then I at the beginning?  You remember II also said that there's two readings of "culture wars." One is religious versus secular; the other is liberal versus conservative. And so it gets messy.  Do you understand this to be liberal versus conservative?  MR. GILLEM: Objection. Poundation.  Mell, again, I don't know. All I can do isis speculate, and I suspect that iticyeab, it applies. It says that wewe're trying to be

<u></u>	SHEET 27	PAGE 105	_	PAGE	107	
• 1	00105		1 1	00107		•
, 3	1	religiously neutral, I suspect, as the Supreme	2	1		before, in commection with Phillip Johnson, but
3	2	Court requires us to be, and that means we're not	3	2	Q	Have you heard it used before in connection with
4	3	going to discriminatediscriminate against any	4	3		intelligent-design theory?
5	•	people in terms of their religious beliefs or their	5	•	),	Yeah. Yeah.
6	5	mooreligious beliefs.	6	5	Q.	What do you understand the wedge strategy to be so
1 7	6 Q	Then it continues: "School districts are forms	1 7	6		far as intelligent-design theory is concerned?
8	7	for impairy and critical discussions. The above	9	7	ß.	Only in the most general sense, it's, I quess,
9	B	statement and the District's revised Biology	9	8		the the use of design experience design arguments
10	9	curriculum together provide an opportunity for open	10	9		to to underwrite a somewhat different
11	10	critical discussion. Ion would disagree with	11	10		understanding of a radically different
12	11	that, wouldn't you	12	13		understanding of mature from that that modern
13	12 A	ሕ <u></u>	13	12		scrence and methodolomethodological maturalism
14	13 g	at least not at school here?	14	13		allow for. That is, an understanding of mature
15	14 3	Not meanly as open and as critical as it should be.	15	24		which iswhich is designed rather than, as
16	15	The question is whether this is minimally-whether	16	15		neo-Darwinian would say, an unguided, purposeless
17	16	this is acceptable, I guess. And, you know, I	17	16		would have it, an adquided or purposeless project
18	17	think it's acceptable, butbut I wouldI would go	18	17		pročess.
19	18	mich further.	19	18	Q	Okay. According to 'The Wedge Strategy,' the
20	13	MR. WILCOM: Okay. Time for another	20	19		paragraph at the next to the bottom of Page 1,
21	20	break?	21	20		cupte. Discovery Institute's Center for the
22	21	MR. GILLIM: Yeah.	22	21		Renewal of Science and Culture seeks nothing less
23	22		23	22		than the overthrow of materialism and its cultural
24	23	(SEVEN-MINITE RECESS)	24-	23		legacies. Bringing together leading scholars from
25	24		25	24		the natural sciences and those from the humanities
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1	00106			<b>1</b>	00198		
2	l,		MR. WILCOX: If you don't mind, would you	2	2		and accial aciences, the Center explores how new
3	2		mark this as Mord Exhibit 3 -or 4. I guesa this is.	3	2		developments in biology, physics, and cognitive
1	3		(PLAINTIFF'S DE⊋OS1710N EXH1817 NO. €		3		science cause serious doubts about scientific
5	1		MARKED FOR IESNTIFICATION)	5 5	4		materialism and have reopened the case for a
6	5	ů	(By Mr. Wilcox) Let me show you what's been marked	f  6	5		broadly theistic understanding of mature. Do you
7	-		as Exhibit 4 to your deposition.	7	6		understand that the "new developments in biology"
В	7		MR. GILLEM: I heard about this.	9	7		referred to here is intelligent design theory?
9	9	Q	And I'll sak if you have encountered that before.	9	8	A	i guess. I haven't read this document, so I
)0	9	λ	Examines paperwritings.) No. I haven't.	10	9	₽	Okay. Let's continue. Under Five Year Strategic
11	10	Q .	Are you familiar with an organization called the	11	10		Plan Summary"
12	11		Center for the Repewal of Science and Culture?	12	11	λ	(Examines paperwritings.) Yes.
13		A	<pre>ls1've heardI've heard of it. That is part of</pre>	13	1.2	2	on Page 1, it begins, quote, "The social
14	13		the Discovery Institute, is it?	14	13		consequences of materialism have been devastating.
15	14	Q	Correct.	15	14		It continues, "In order to defeat materialism, we
16	15	λ	Teah.	16	15		must cut it off at its source." And it talks about
17	16	ů.	The Center, according to this, is directed by Dr.	17	16		"a 'wedge' that, while relatively small, can solit
18	17		Stephen Neyer. Have you heard of bin?	19	17		the trunk when applied at its weakest points." And
19	18	À	Tes. Yes, I have.	19	18		then it gets closer to what we've been talking
20	19	Q.	No you understand him to be one of the intelligent-	20	19		about here
21	20		design-theory proposents?	21	20	λ	Th-bah (yes).
22	21		705.	22	21	Q.	and it says, quote, "The very beginning of this
23	22	Q	"The Wedge Strategy" is the title of the document.	23	.22		strategy, the 'thin edge of the wedge,' was Phillip
24	23		Have you heard of the wedge strategy before?	24	23		Johnson's critique of Darwinism begun in 1991 in
25	24	A	Oh, I've certainly heard the term "the wedge" used	25	24		Darwinish on Trial, and continued in Beason in the
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	SHEET	28	PAGE 109		PAGE	111	
1	00109			1	00111		
] 2	1		Balance and Defeating Darwinism by Opening Minds,	2	1		saying, yes, I'm familiar, because that's that's a
1 3	2		Michael Bebe's highly successful Darwin's Black Box	1 3	2		claim that's oftentimes made by made by critics.
4	3		followed Johnson's work. We are building on this	1	3		and and so I'm only familiar with it in that
5	. 4		nomentum, broadening the wedge with a positive	5	4		şense.
. 6.	5		scientific alternative to materialistic scientific	6	5	Q	Okay. If you turn to the page that's numbered
1 7	6		theories, which has come to be called the theory of	7	6		sero-one-two-four-four (01244)
18.	7		intelligent design."	8	7	A	Examines paperwritings.) Tes.
9	. В		Is it your understanding that the design	.9	8	Ð	it refers to "The Nedge Strategy Progress
10	9		instituteI'm sorrythe Discovery Institute	10	9		Summary," and under "Books," it says
11	10		purpossfully has promoted intelligent-design	11	10	A	· Uh-hab (yes).
12	п		writings and intelligent-design theory as a way of	12	11	Q	William Dembski and Paul Welson, two Center for
13	12		developing the thin edge of the wedge into a	33	12		the Renewal of Science and Culture Fellows, will
14	13		broader wedge?	14	13		very soon have books published by major
15	14		MR. GILLEN: Objection. Speculation.	15	14		publishers."
16	15	4	You know, II haven'tII know what the	16	15	A.	Th-bub (yes).
17	16			[17]	16	9	This isthe Dembski bere is the same Dembski you
18	17			18	17		referred to earlier
19	18			19	18		Yes. Yes.
20	19			20	19	Q	as one of the leading proponents of intelligent
21	20			21	20	_	design?
22	21			22	21		Uh-huh (yes)
23	22			23	22	g	Do you know Paul Melson to be a proponent of
24	23			24	23		intelligent-design
25	24		don't have any kind of independent understanding of	25	24	A	¥es.
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1 2 3 4 5 6 7 8 9 10 11 12 14 15 16 17 18 9 20	00110 1 2 3 4 5 6 7 8 9 10 11 12 23 14 25 16 17	ē.	what their mission oror goal is, other than generally to support intelligent-design theory. Okay. And then it continues, in this same strategic-plan summary, quote, "Design theory promises to reverse the stifling dominance of the materialist worldview, and to replace it with a science consonant with Christian and theistic convictions." Is this the first you've heard of that aspect of the Discovery	1 2 3 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q A Q A Q A Q	theory? Yes. I'm sorry? Yes. Uh-huh  yes . And then it refers to Nichael Behe's Darwin's Black Bor book. Do you understand him to be a leading proponent- Yes. Uh-hub (yes)of intelligent design? And then it refers to, on the last page, the goal of getting intelligent- design theory out into television and radio, and nowspaper and magazine articles. That's the popular press that you've referred to- Uh-hub (yes)where most of your reading about intelligent design- Ieshas come from? Teah. Well, I wouldn't say the popular press.
23 23 24 25	20 21 22 23 24	Ď	intelligent design? I appreciate  MR. GIGLEN: Objection. Foundation.  Mo, 1I appreciate that fact. I'mbut you asked  me if I was familiar with that idea, and I'm	21 22 23 24 25	20 21 22 23 24	•	Most of it's nowe from reading scholarly work, not the scientific-the nitty-gritty scientific stuff but the the more scholarly work in the kind of philosophical questions that raise the the philosophical questions about design and and

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1	00113			• 1	00115		
2	1		naturalism. That's where most of my impressions of	2	1		reflective of the community in which that school is
3	2		the movement come from.	3			located?
4	3	Q	If Exhibit 4 to your deposition is in fact a	4	. 3	À	It depends in part on what the subject is.
5	4		statement by the leading proponent of intelligent-	5	4	٠Q	Well, let's talk about evolution and biology.
] 6	5		design theory, would you still say that it	6	. 5	À	I would say that a biology textbook should have.
1 7	6		intelligent-design theory passes the test that	1 7	. 6		rather than the perfunctory introductory chapters
9	7		you've set out in your report of heing bonestly	₿.	7		that they now have on scientific method, which may
9	. 8		drawn from the evidence and not an ad boc	9	- 8		not say anything other thanwhich offerwhich
10	• 9	A	Yeah.	10	9		typically offer a short and-and perfunctory and
11	10		MR. GILLEN: Object	u	10		philosophically simplistic idea of scientific
12	11	Ģ.	view? This would cause that into questioncall	12			methodthat rather than that, textbooks should
13	12		that into question, wouldn't it?	[   13			have a substantive introductory chapter, in which
14	13		MR. GILLEN: Objection to form.	14			they locate biology historically and
15		À	Not necessarily. That is to say, one can still	15			philosophically in terms of our ongoing
16	15		drawI mean, just as one can have atheistic	16			discussionnot just current culture wars but
17	16		reasons for liking men-Darwiniss but that doesn't	17			intellectual discussions, for example, about the
18	17		call into question the edequacy of neo-Derwinism,	18			role of design in nature, and make students aware
3.9	78		so one can have theological or philosophical	19			of- of this larger intellectual and cultural
20	19		convictions for a designa world of design that	2¢			context, so that they can appreciate that what
21	20		doesn't becassarily call into question the adequacy	21			they're going to study is controversial in certain
22	31 22		of the actual design explanations.	22	21		regards, andand they aren't simply taught it as
23 24	23		So Dawkins andand Daniel Dennett and	23			if it's the only way of understanding nature.
25	23 24		Staphen Jay Gould don't discredit Darwinism because				Now, what what points of view, what
123	42		they argue from Darwinish to an atheistic world.	: 25	44		alternatives do you-do you bring up? How much
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1	00114		<b>.</b>	1	G0116	
2	1		Gould says - in one of his essays, he says he really	2	;	space do yoù have? Youyou always have to, in any
3	2		likes the cold-bath theory of reality, that that	3	2	subject, balance depth with breadth. And so how
4	3		somehow or another, a world without God, ofof	4	3	many alternative ways of understanding nature do
5	- 4		struggle, is a world that's he finds, in his stoic	5	4	you include is coing to be shaped in part by
- 6	5		temperament, rather congenial. But that doesn't	6	5	judgments about how much space do von have to give
- 1 7	6		discredit his work in paleontology. So you can	1 7	6	them to make them at least minimally coherent. Do
B	7		draw that distinction.	В	7	you include ten alternatives, but give them a
9	8.		Now, you know, whether, in fact, their	9	₿	paragraph each, or do you include five alternatives
[10	9		theological convictions color their scientific	10	9	and give them two or three paragraphs each? And
[11	10		work, I can't say. What Iwhat I would argue is	111	10	it'sit's a complicated question.
12	11		that they needn't.	12	11	In general, I think the idea should be: 🛔
13		Q	This, I think, might go a little beyond your report	13	12	Given the historical and philosophical debates
14	13		but is drawn from some of your books. You have	14	13	about how we make sense of mature, methodological
15	14		expressed the view that schools, in order to be	15	14	materalism, questions of design, questions of God,
16	.15		fair, abould take religion seriously	16	7.5	are there three or four or five ways of thinking
17		A.	Uh-huh (yes).	17	16	about mature that are bistorically and, in our
18	17	Ω.	and that to do that, they should address	18	17	contemporary world, sufficiently important so that
19	18		explicitlyI'll use your metaphorreligious	19	18	students must voust be abould be made aware of
20	19		YOICES	20	19	their existence if they're to be liberally
21		λ	Yes.	21	20	emucated, if science isn't just to be a form of
22	21	Q	as they relate to the subjects in the curriculum.	22	21	socializing students into what contemporarythe
23	22		And I am curious as to selecting among the various	23	. 55	dominant way of understanding nature of
24	23		religious voices. Is it your view that echnols	24	23	contemporary science? So, you know, I really can't
25	24		should present the religious voices that are	25	24	answer that question until you let me know how many
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ŀ	1	00117		
	2	1		pages I can have andand how sophisticated the
	3 4 5 6 7 <b>8</b> 9	2		teachers are going to be.
ļ	4	3		I mean, that's another question, too.
	5	4		Teachers aren't prepared to deal with that kind of
	б	5		material, and so it's a matter ofof science
	7	- 6		education for the science teachers and preparing
	₿	7		them to have a little broader understanding of what
		9		science education is. And the sciencenational
1	.0	9		science standards way students need toscience
1	.1	<b>]</b> D		should be taught in historical context. They just
1	2	11		don't fill that out in very interesting ways
1	.3	12		philosophically speaking.
1	4	13	Q	There are probably hundreds of millions of Hindus
1	.5	14	A	Un-buh (yes).
1	.6	15	Ď	who have a view of the meaning of life.
	.7	16	λ	Yeab.
	.8	17	Q	Should that be taught in our public schools in
	.9	19		central Pennsylvania?
	0.9	19	Α	I think all students should be required to take a
	37	20		course inhigh-school students should be required
	22	21		to take a course in religious studies that exposes
	23	22		them to the way several major religious traditions
	14	23		understand the world. And I think it's good to
- [3	25	24		include an Bastern religion in there.
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	2	1		several major religious ways of understanding the
	3	2		world, both in their classical forms and with
	4	3		regard to how we live our lives here and now. That
	5	4		isn't going to happen any time some.
	6	5		Andand that's athat's a very
	7	6		controversial position. I I think that's what the
	B	7		liberal education requires. Indeed, I think if you
	9	. 8		really spell out what constitutional neutrality
1	10	9		requires, that's thethe best way of bewing
	11	10		neutral schools.
	12	11		But it'sit's not just for religious
	13	12		reasons. My theory of liberal education doesn't
١	14	13		just requireI mean, Iit's a broader theory.
I	15	14		It's one which I, in mymy own research and work,
١	16	15		have applied to religion, but the theory also
I	13	16		requires that students learn alternative secular
I	18	17		ways of making sense of the world when there are
I	19	13		controversies.
I	20	19		Andand that'sI mean, that's the
I	23	20		reason that I think my way of thinking about
I	22	21		liberal education applies to intelligent-design
I	23	22		theory, is becauseI mean, just as students need
I	24	23		to learn about Republicans and Democrats, between
ı	25	24		communitarian andand liberal and neoclassical

	PAGE	1,18	
1	00118		
2	1	Q	This raises another subject altogether. To what
3	2		extent, in your view, should the issues that we've
4	3		been talking about todayspecifically, secular
5	•		versus religious ways of understanding the nature
6	5		of reality-be addressed, in your opinion, in a
7	6		high-school minth-grade biology class, or would it
8	7		be better if they were addressed in a well-designed
. 9	8		comparative-religion, religious-studies class?
10	9	y.	Teah. Well, my answer isis both, in general.
11	10		That is to say, I argue for minimal inclusion when
12	11		courses deal with particularly important and
13	12		particularly controversial issues religiously
14	13		controversial or religionaly important issues.
15	14		There should be some minimal inclusion in an
16	15		ecommunica course, a literatura coursa, a science
17	15		course. It makes students aware of the
18	17		controversies, and what's controversial and what
19	18		isn't, and for whom.
20	19		But recognizing that that kind of minimal
21	20		inclusion iso't going to produce any deap
22	21		understanding on the part of students, I think that
23	22		s liberal education requires that they also take a
24	23		course in religious studies that gives them a more
25	24		in-depth understanding of several different
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	1	06120		
	2	1		ways of thinking about economics, they need to
	3	2		understand different seculardifferent
	4	3		scientific - different ways of understanding science
	5	4		and theend quite apart from any claims that I
	6	5		want to make about religion.
	7	6		Criticalthe point of a liberal
	8	7		education is to enable students to think
	,	8		critically. And you can only think critically when
ì	10	9		you understand alternatives to the to the
ł	1)	10		conventional wisdom. And and that's what we don't
ì	12	11		do very well. As I said, adocatico is more or less
Į	13	12		serial socialization rather than any kind of
ı	14	13		informed critical understanding. Andand so it
Į	15	14		really doesn't have enything the theory of liberal
ı	16	15		education doesn't have roots in anything religious
ı	17	16		or-wit just bappens that that's what I've applied
ı	18	17		it to in most of my work.
	19	18	٥	One criticism that has been made of intelligent-
	20	19	•	design theory is that it is essentially an argument
	21	20		From ignorance
	22		A	Yeah.
ı	23	22	Ö	meaning that intelligent design says, "If I see
ı	25	23	•	scoething that I can't explain as a matter of
1	25	24		evolution.
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1 1	00121		1	00123		
2	1 3	, l¢n-huh [yes].	2	1		critical perspective on maturalism.
1 3	2 Q	then it must be the product of design."	3	2		Soso, yeah. I mean, I want to say that
4	3 A	Uh-hub (yes).	9	3		students should be exposed to theto various ways
5	4 0	That's a port of false dichetony, is it not?	5	4 -		of understanding all of the subject matters that
1 6	5 A	Yeah. It I mean, oneone could imagine there	6	. 5		that they learn about in school if they're to think
17	6	being alternativeone could imagine there being	1	6		critically about them. But I happen to think that
. 8	7	alternative naturalistic explanations to those of	₽	7		mat -that intelligent design has a reasonably good
9	8	nec-Darwiniam. Andand maybe complexity theory is	1.5	8		chance of coming to be seen as -as good science,
10	9	an alternative naturalistic explanation: 1 just	10	9		although it's deeply controversial now. But the
11	10	don't know enough about it to say. In fact,	11	10		controversy's itself a reason for educating
12	11	neo-Darwinian and intelligent-design theory seems	12	11		makingmaking etudents aware of it.
13	12	seem to be the only two significant contenders	13	12	Q	Well, controversies sometimes are formed by loudly
14	13	right now.	14	13		proclaiming something.
15	14 Q	If one were to conclude that intelligent design was	15		À	Yeah.
16	15	not scientifically valid	16		Q	Just because there are some loud proclaimants
17	16 A	Uh-huh (yes).	17	16		Un-buh (yes).
18	17 Q	at least as modern science is defined and	18	17	٥	of an idea doesn't mean that it should become
19	18	limitedis it your view that intelligent design	19	. 18		part of the curriculum in public education, does
20	19	should monetheless be taught because of its	20	19		it?
21	20	willingness to-because of the vehicle it provides	21	20	À	You know, I mean, one answer I want to give is,
22	. 21	for addressing questions of the purpose of reality?	22	21		well, you know, it depends on how loud the
23	22 A	Well, I mean, right now, the crucial question is	23	22		proclaimants are, because students meed to
24	23	whether it's science and whether our understanding	24	23		understand cultural controversies. I mean, even
25	24	of actence should be broadened enough to include	25	24		even for things that aren't at all intellectually
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3	00122			1	00124	b
2	1		design explanations. Now, are you saying,	2	1	reapectable, students should understand something
3	2		'Suppose, in the long run, we decide it isn't good	3	2	scmething about them. If they're important in our
4	3		science; then should it still be included?	4	3	culture, they should be given some perspective on
5	4	Ð	Yes, because of its heuristic benefit, its	5	4	
6	5	_	pedagogical benefit.	6	5	But, you know, I want to say that the
1 7	6	A	Well, you know, in a sense, I want to say my	1 7	6	intelligent-design argument isn't one primarily
8	7		position is it should be includedconsidered good	ll B	7	about shouting loader. It's one that has serious
9	8		science, so I don'tI'm not sure I want to	9	8	intellectual merit and that is part of, as I said,
10	9		speculate about what happens if we decide it isn't	10	9	a larger discussion about design that goes back to
115	10		good science.	111	3.0	
12	11		But, you know, II do think that	12	32	
13	12		students should be made aware ofjust as 1 think	13	12	story. And it also fits vertically intointo a
14	13		they should be mademade aware of various kinds of	14	23	
15	14		religious ways of understanding not just mature but		14	
16	15		the economic world, or mistory, or human mature,	16	25	
17	16	•	that there is some value in exposing students to at	17	26	mignt be design in biological evolution or in our
18	17	٠.	least some kind of rudimentary understanding of	18	17	
19	18		mature as being designed, even-even if istelligent	19	18	patterns, the vertical pattern of of historica!
20	19		design - quite apart from intelligent-design theory.	20	)9	
[2]	20		There are theological and philosophical	21	20	pattern ofit goes to cosmology and how we
22	21		arquments one can make for the idea there's design	22	25	understand the wind. It has aso it has a
23	22		in mature, some of which ithe philosophical	23	22	
24	23		arguments, I happen to think are quite good, and	24	<b>Z</b> 3	those orgaing philosophical controversies.
25	24		that provide a kind of alternative that give people	25	24	(Pause.)
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- [		00125		· · · · · · · · · · · · · · · · · · ·	1	00127		
	2	1		As well as in- in terms of the particular.	2	1		the minth grade?
4	3	2		kinds of intelligent-design arguments that are now	3	2		NR. GILLEM: Objection. Speculation.
-1	4	3		starting to be made by people like Dembski andand	4	3		MR. WILCOX: As to what his own view is?
-1	5 /	4		Behe: Butbut those arguments arearen't out of	5	4		NX. GTLLBW: Well, yeah. What did you
-1	6	5		the blue. Theythey have cultural and	- 6	3		ask him? I'm morry, Chub. I thought you maid
-1	7	6		intellectual importance in part because they they	17	6		should they do it?
-1	а	7		fit in-into larger patterns that give them a kind	8	7		THE WITHESS: I'm1 only speculate about
-1	9	. 8		of credibility, I think. Possible credibility, at	, 9	8		ny own views.
-1	10	9		least.	10	9		MR. GILLEN: Dkay. Good.
	11	10	Q	It a minth-grade public-high-school himlogy course	11	10	ŷ	(3y Mr. Wilcox) No. 1 detected in your last answer
-1	12	11		were to teach the science that almost all	12	11		the motion that because that's where high acbools
- [	13	12		scientists believe is correct.	13	12		teach biology that's where it has to be addressed.
-1	14	13	A .	Th-bub (yes).	14	13		But I'm saying
1	15	14	Q.	and leaves it to churches and parents to instruct	15	14	À	It's not the only place where it has to be
1	16	15		on moral and metaphysical questions	16	15		addressed. I mean, I think physics courses should
-1	17	16	À	Սի-հահ lyes)։	17	16		deal with the question of cosmological fine-tuning
	19	17	Ŏ	what's wrong with that?	18	17		and
	19		A	Well, their students won't be educated, and	19	18		But I'm sticking with biology for a minute and-
	20	19		they'll. they'll be at the mercy of of parents who:	20		A	Yeah.
	21	20		may or may not understand much about these larger	23	20		and the meaning of life
	22	21		intellectual issues. Most of them won't understand	22	21		Yeah.
	23	22		about these largerlarger intellectual and	23	22	Q.	whatwhatite question whether there is meaning
	24	23		philosophical issues, because they weren't	24	23		or purpose in biological life.
	25	24		themselves liberally educated or well educated	25	24	A	Right.
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1	00126			1	00128		
1 2	1		about it. So a liberal education requires that	2	1	Q	I had the sense of your earlier answer that perhaps
1 1	2		that schools provide students some kind of an	3	2		it would be better if students were a little older
1 4	3		understanding of these larger chilosophical,	1 4	3		and more sophisticated when they were introduced to
5	4		sometimes religious, questions. Otherwise, we	5	4		these concepts. But I heard you to be saying since
1 6.	5		leave them unable to think critically about the	. 6	5		that's where schools teach biology
15	6		conclusions that we present to them.	7	6	A	Yeah.
l è	7	Q	And I take it, in your view, the minth grade is	a	7	Q	that's where they have to address this. And that
( 6	- 8	-	certainly nome too early to start?	9	8		leed meled me to my alternative suggestion:
10	9	à	Ino. II think there's a real question about	10	9		Would it be better, in your view, for high schools
111	10	-		11	10		to defer teaching biology-and along with it,
12	11		with controversial kinds of issues and able to	12	11		teaching
13	12		understand the alternatives. So that I would say	13	12	λ	Yeah.
14	13		there's a real difference between elementary and	14	13	ů.	additional explanations as to the significance,
15	14		secondary schools in when we start untroducing them	15	14		meaning, purpose of lifewhen students were a
115	15			16	15		little older and better able to grasp
117	16		arguments and discussions.	17	16	λ	Well, if students took biology when they were
19	17		But minth grade is when many students	18	17		seniors instead of freakman, they would probably be
j 19	18		study biology, and it may be the only time that	19	18		in a better position to understand some of the
20	19		many students study biology. So that it's	20	19		coptroversies. They would be morethey could be
21	20		essential that they get some introduction to the	21	20		more intellectually sophisticated andand make
22	21		fact that there are contending ways of	22	21		sense of it better. That's true. Butbut
23	22		understanding mature at that time.	23	22		you'reyouyou can't teach everything when
24	23	û		24	23		students are seniors. I mean, you've got to teach
25	24		to teach biology in the twelfth grade instead of	25	24		them some things when they're in minth grade, some
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1	00129			1	00131		
2	1		things when they're in tembs, and so on. Andand	2	ī	Q	"to teach students that most scientists believe
1 3	2		you haveyou have to balance that with arguments	1 3	2		that neo-Darwiniem is a confirmed theory."
4	3		that science educators would make about what the		3	λ	Yes.
5			proper sequence should be to teaching students the	5	4	Q.	And then you continue by saying, "Still"which I
- 6	5		sciences. And minth grade isn't too early to give	6	5		interpret as kind of a 'however''the
1 7	6		them some sense of what's at issue. So, you know,	1 7	6		distinction"
В	7		there are a lot of variables that you weigh when	1 8	7	Ä	(Examines paperwritings:) Yes, you're right.
19	B		you decide what what to teach them when.	. 9	₽-		That's a stillthat's a "however" "still."
110	9		But, yes, in principle, it would be nice	10	9	Q.	*the distinction rightly suggests that because
11	10		if students were a little older and more mature and	11	10		neo-Darviniam is a theory, its confirmation rests
12	11		better able to understand some of the issues than	12	11		not simply on observation"
13	12		they are inin minth grade. But them you might	13	17		ls do facts.
14	13		have to teach physics in aloth grade, and them you	14	13	ū	"but on a wide range of complex considerations
15	14			[15	14		which are potentially open for reinterpretation."
16	15		the alternatives there. So, you know, I don't know	16	15		Yes.
17	16		how you sort that out.	17	16	Q.	Now, you lost me there, because I thought
16	17 (	7	If you would, turn to the top of Page 8 of your	18	17		confirmatheories are confirmed by observation and
19	18		report. Theyou make some statements here that I	19	18		not by a wide range of complex considerations.
20	19		just need to have your help understanding.	20	19	F	Oh. Factsfacts are things that we observe
21	20 (		(Examines paperwritings.) Oh-hub (yes). Okay.	21	20		directly. Theories bings on all kinds of things we
22		2	You say, quote, Because scientific theories can be	22	21		can't observe directly.
23	22		confirmed they aren't mere speculation. " I'm not	23	22		So that I mean, it's a fact that the cup
24			quite sure what you mean by that. Do you	24	23		is right here. (Indicating.) I can observe it
25	24	Ŋ.	Well, I think some people who talk about evolution	25	24		directly. But that the fact that the cup is made
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_	PAGE	130			PAGE	132
1	00130			1	00237	
1 2	1		beingor, you know, Darwiniso being a theory	1 2	1	mut of electrons and protons and neutrons and
3	2		neanmean to discredit it by saying it's were	3	2	photons and, you know, all of those thingsthat's
4	3		speculation. So the scientific establishment has	4	3	a theory. That's that has to do with atomic
5	•		responded in turn that a theory isn't mere	1 5	4	theory. Andand I can't observe any of that stuff
6	5		speculation and hypothesis, that the theories can	6	5	directly. That's athat hinges on all kinds of
١,	6		be confirmed.	1 7	6 7	scientific laws andand complicated theories,
B	7		And I think that's athat's a valid	<b>:</b>   B		which have implications for our observations but-
9	₽		viewpoint. Theories can be confirmed. They can be	9		but go way beyond our observations.
10	9		confirmed more or less. And, so, oftentimes,	10	9	So that the theorneoneo-Darwinish as
11	10		neo-Darwinismor evolution, the ideathe theory	11	10	a theory rests on a whole set of complex
12	11		of evolution is contrasted with heliocentric theory	12		considerations and complex kinds of arguments and
13	12		or the theory of gravity, which have so much	13	12	and evidence. We can't observe evolution. And
14	13		confirmation thatthat it's wildly misleading to	14	13	and that's important, because factual judgments can
15	14		suggest they're mere speculation. And I - and I	15	14	be confirmed directly by virtue of our
16	15		agree with that.	16	15	observations, theories can be more or less
17	16		So thethe effort on the part of of	17	16	confirmed, but they go way beyond our immediate
18	17		some opponents of evolution to say that it's a	18	17	observations.
19	18		it's a-lic's a mere theory, I think, missed the	19		So, most scientists, I think, believe
20	19		egitimate acientific point that theories can be	20 21	19	that neo-Darwinism is a confirmed theory. Mow, I would say probablyand I perhaps should have said
21	20		confirmed.		20 21	thatthat its confirmation has a high degree of
22		Q	Okay. And then you say, "I believe it is	22 23	22	probability for most scientists. Host scientists
23	22		appropriate for science texts*and, I assume,	23		accept it as a confirmed theory.
24			science teachers	25	24	But because but there's still a going to
25	24	¥	Oh-buh (yes).	1 47	24	and pacamaeput there's actif a forme to
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	SHEET 34	PAGE 133		PAGE	13	35 _	
1	00133		. T i				ļ
	1	the kind of objection that some people make toto-	1 2	í			textbooks somehow or another conveyed the idea that
1 1	7	evolution, because its confirmation rests on a	113				thethat the school board was on the side ofor
1 .	ž	whole set of complicated considerations that are	l 4	3			waswas opposed toto teachingteaching
1 3	ī	perhaps open to alternative interpretation, namely	1 5	i			evolution, in spite of the fact that the school
1 2	Š	design interpretations.	6	5			board chose the textbooks, which, as be
1 7	6 Q	Okay.	1 7	-			acknowledged, had hundreds of pages on evolution.
l a	7 · A	Butbut I think that students should be taught	8	7			So, I mean, it's indicrous to attach that
وَ		you know, I'm not in favor of of balanced	و ا	8			much importance to the stickerwhich also, of
10	9	treatment in the sense of giving equal time to	10				course, means, you know, why are you-all so upset
lii	ıú	alternative theories. And in my ideal biology	lii				about it?because it it doesn't have that kind of
12	11	textbook, you know, you don't give equal time to	12				compological inpurt.
13	12	Biblical creationism, oror just limiting us to	13				Butbut it serves thethe goal in ain
11	13	scientific views, to design theory and to	14	13			a kind of mini-minimal but important way of-of
15	14	establishment science, but, of course,	15				making students awars of the fact that there are
16	15	establishment science has got to receive most of	16				alternatives. And that in itself is worthwhile
17	16	thethe time andandpages in the textbook and	17	15			even if it ign't mearly asashave the kind of
18	17	hours in the class. But you can't exclude	18	17			substantial implications that it-that it should.
19	18	legitimate alternatives.	19	18			I mean, as I seid, I would have students
20	19	App so design theory has to be taken at	20	19		•	learn scmething much more about the philosophical
21	20	least seriously enough so students are made aware	21	20			and historical issues relating to design andand
22	21	of it and given, ideally, some sense of what it is.	22	21			methodological naturalism and neo-Darwinism than
23	22	Short of that, the kind of disclaimer that Dover	1 23	22			istham is usually done, but at least make them
24	23	wants to have seems to me to be a very, very modest	126	23			awars of the fact that there's a controversy.
25	24	step in the right direction.	25	24	Q		Okay. The controversy that you're referring to in
1		200 E. C. C. C. C. C. C. C. C. C. C. C. C. C.	i (		_		
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	PAGE	134			PAGE	136	
ľτ	00134			1	00136		
1 2		0	Under the heading "The Present Cass"	1 2	1		this statement
l ā	2	À	[Examines paperwritings.] Tes.	ΙÍ	2	A	Uh-huh [yes].
1 4	3		you say, 'By making students aware of the	4	3	Q	that we just quoted is as to whether there is or.
1 5	4	-	controversy surrounding Darwin's theory of	5	4	-	is not purpose underlying life?
6	5		evolution, including IDT, the Dover School District	6	5	A	It's rit's the it's to make them aware of the
19	6		is promoting legitimate, secular, pedagogical goals	1 7	6		controversy regarding design explanations in
ľв	7		and embancing their science education and student	a	7		biology, yes, thatthat there is an alternative
9			learning. Given some of the embiguities,	9	. В		theory for understanding nature that -that involves
10	9		inconsistencies, problems, and gaps that we've	10			design explanations, yes, and so isyou know, I
11	10		noticed in the	11			want it to be much more substantial than it is
12	11	λ	Yesh.	12			toto really serve the purposes of liberal
13	12	Ò	board's statement, and the fact that it is just	13			education. But itbut itit serves the minimal
14	13		read and them abundomed for the rest of the	14			purpose of alerting them to a controversy that's
15	14	λ	Yes.	25			that's real and that's important.
16		Q	samester, do you think this might be an	16		Q.	And that's the control-the controversy is
17	16		cverstatement bere?	17		A	Is is over whether design explanations have a role
18	17	λ	(Examines paperwritings.) It is promoting a	18			is biology.
19	18		"legitimate, secular, pedalogicpedagogical goal,	19			And by "design explanations" here
26	19		and it is minimally enhancing their science	20			ՄԻ-հահ Iyesi-
21	20		education and student learning.	21		Q	- we're using It not In the serse of design of a
32	21		I mean, you're right. It'sit'syou	22			particular bacterial flagellum but rather in the
23	22		know, II think Judge Cooper's decision was	23			broader sense of "Is there purpose to life?" Is
24	23		ludicrous because he thought that that little	24			tost
25	24		disclaimer that they pasted in the Georgia	25	24		MR. GILLBM: Objection to form.
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		SHRET 35	PAGE 137	_	_ PAGE	139	9
Į	1	00137	·	1	00139		i i
	2	1 0	Isn't that what you mean?	2	1		actions of atoms?
-	3	2 A	The . the two are related, but, I mean, intelligent-	3	2	A	Yeah. I mean, that's whatthat's what makes the
Į	4	3	design theory, insofar as it holds that there are	4	3		controversy important to most people. Andand I
- 1	5	4	design explanations that areare plausible, that	5			can't[ don't know what- I've not talked with and
- 1	6	5	are reasonable explanations, is compatible with and	6	- 5		I've not sead what the school board said about it, .
4	7	6	open to the possibility, them, that there is some	7	6		eo Iyou know, i can't speak toto that.
	8	ž	kind of larger design in mature. It's also open to	B			But, for most people, urdoubledly, that's
	9	8	the possibility that there's a supermatural	] 9	8		why it's important. That's not the only reason or
	10	9	explanation, but it doesn't require any of those	10	9		maybe evenI mean, that's oneone reason why
	ii	10	things.	11	10		students should be educated about the controversy.
	12	11	Butbut, yeah, I mean, I think that	12	11		But the other reason is because there is ▮
	13	12	that thethat the controversy is over whether or	13	12		a debate, a controversy, among scientists about
	14	13	notthatthethe underlying principle is that	14	13		what counts as a good and an adequate scientific
	15	14	when there's a controversy, students should be made	15	14		explacation. And that controversy in and of itself
	16	15	aware of different points of view.	16	15		is important enough to warrant refureference to
	17	16	Now, there's a controversy over	17	16		Intelligent design, I thank, inin the curriculum.
	18	17	evolution. Some of the points of view are	18	17		Nownow, many people, to doubt, would
	19	38	religious. And I think they should be included	19	18		would gay, "I could care less about thisthis
	20	19	atat some point in thein the curriculum.	20	19		debate among scientists andand tho gets to count
	21	20	Where, is an important question, obviously.	21	20		as accentists and who doesn't. I believe what
	22	21	But there are also there is also a a	122	21		Genesis tells me." (I mean, of course. And
	23	22	ecientific controversy, at least it we are willing	123	22		that's why this debate is so important to many
	24	23	to have a somewhat broader definition of science	24			people.
	25	24	than establishment science holds. There's a	25	24		Aut that's not the only reason it's
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2	1		controversy about that, what it means to be	1 2	1		important. Andand the warrant of references to
1 3	2		scientific. And students should inform be	1 3	2		intelligent design, and ideally some discussion of
1 4	3		informed about that.	11 4	3		it, stem from the fact that there is-there is a
5	ĭ		And - and then the controversy is, do	II 5			serious intellectual controversy among scholars,
Ιć	5		design exare design explanations legitimate? I	6	5		credible acientists, and philosophers whosome of
7	- 4		think, since there is a respectable case that case	11 1	6		whom are secular, notnot religious, about the
8	ž		be made for that, that students need to be gade	a	7		mature of design inthe nature of design in
9	8		aware of it. "Respectable" meaning, as we talked	9	8		nature, thewhetherwhether there's design in
10	9		before, in terms of arguments and evidence cited by	10	9		mature. And, as I said, not just in biology but
111	10		people who have credentials in science and who use	11	10		also in cosmology, and also in how we understand
12	11		other aspects of science asasin the process of	12	11		the brain and the mind, and in other areas of
13	12		being scientists, who who don't flatly reject	13	12		Ecierat.
14	13		everything that science has to say, and that aren't	14			Şo it's not just this case, even though
15	14		incompetent and ununeducated in establishment	15			that's the one people pick up on 'cause that's
16	15		science.	16			that's the one that is personally it's a part of
17	16	Q	Let be see if you can agree with this	17			our culturé Wars.
1.8	17	à.	Ckay.	18			
19	18	Q	statement: Throughout your opinion, you have	19			be taught that ran and the species as we know them
20	19		referred to significant disagreement and important	20			today did not gradually evolve from other life
21	26		controversies. Jen't it true that what makes the	.   21			forms but appeared suddenly in the historical
22	21		controversy important is the implications as to	122			τειοτά?
23	22		whether there is a meaning to life	23		λ	
24	23	A	ՄՈւ bub (yes).	24			true, the answer is no. That-that would be, in
25	24	Q.	other than sheet random, unguided, purposeless	25	24		fact, an endorsement of a religious worldview, and
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	SHEET	36	PAGE 141		PAGE	143 .	
l 1·	00141			1	00143		
2	1		It would be unconstitutional and would also beI	2	1		T)
3	2		nean, it's a deeply controversial position held by	1 3	2	•	<b>6</b> 0
4	3		a minority of scholars.	1	3		Ċ
5	4		So, no, they shouldn't be taught that	5	4		ς.
Б	5		that's true. But as I said earlier, it seems to 🖦	6	5		p l:
7	6		that an introductory biology text, whether in	1 7	- 6		
B	7		undergraduate school or in high school, should	В	7		M.
9	8		)ocate biology within historical and philosophical	9	. 1		Ú
10	9		controversies, so that if students are to be	10	9	٠.	
11	10		liberally educated, they appreciate the tensions,	11	10		В.
12	11		the conflicts, the overlaps between various ways of	12	11		11
13	12		making sense of nature.	13	12		Ω
14	13		So, yes, I think a Biblical text1	14	13		
15	14		meanBiblical - a biological textwhich is a	15	14		i
16	15		Biblical text to some peoplea biological text	16	15		đ
1.7	16		might well say something about creationism and	17	16		W.
18	17		Genesia-root much, but a littletalk about the	18	17		h
19	18		differences between that and intelligent design	19	18		p
20	19		theory, talk about other ways, maybe Lamarckian	20	19		C
21	20		evolution	21	20		1
22	21	Q	Mowild it be okay	22	21		
23	22	Á	90	23	32		P
24	23	Q	• for a text, and teachers teaching in accordance	24	23		8
25	24		with the text, to explain to students that, you	25	24		P
l			•				
Ι΄.							

That is to say that when we locate students in con--in--when we locate contemporary science or contemporary economics or whatever in the larger cultural conversation, students shouldn't just be presented with alternatives like our cafeteria line, agein. They should be given some sense of what the--what the majority positions are, what the minority positions are, and for whom. So, yes, I think sci--I think students should be taught in biology classes that the najority--the wast majority of scientists hold to a neo-Darwinian view, but that not all of them do. And I would, you know, want to convey the idea that -- that, of course, many scientists don't deal with biology and neo-Darwinism, but of those who do, the wast majority hold to neo-Darwinism; but it isn't the only view, and--and there are people who raise questions about it who have credentials as--as scientists, and so you need to learn something about it. You don't give equal time to the two points of view. Of course, the dominant astablishment view gets the most time and the most pages in the textbook. But the other point of view

		PAGE	142	
	1	00142		
	2	1		know, for a long time, Western man thought that God
	3	2		created the earth and everything in it just the way
	4	3		the Hible said
	4 5 6		X	Sure.
	6	5	Q.	and that notion has now been scientifically
	7	б		discredited by everything we've come to understand
	8	7		through study of the fossil record and the nature
•	9	В		of life processes?
	10	9	A.	No. I I think probably it would be constlegally
	11	10		wise toto qualify that last judgment and say that
	12	11		nost-meny scientistsmost scientists
	13	13	0	Nimety-mine-point-four
	14	13	λ	believe somethingbelieve something otherwise
	15	11	Q.	Winety-mine and forty-four-
	16	15	).	right-than simply say
	17	16	Q	obe-pringledtps leicent;
	18	17	).	than simply say the Bible is wrong.
	19	18	Q	But itit would be oksy, in your view, to teach
	20	19		that minety-mine and forty-four one-bundredths
	21	20		percent, or whatever the number is
	22	21	A	Yeah.
	23	22	Q	think that that's
	34	23	A	I argue, inin that book and elsewhere, for what I
	25	24		call the principle of cultural location and weight.

_	PAGE	144
1	00144	
2	. 1	has to be pentioned. It has to be acknowledged.
1 3	2	MR. WillCOX: Thank you very much.
ā	3	MR. GILLEM: Thank you, Chub. Thanks,
5	á	Warren.
1 6		(WITHESS EXCUSED)
ř	5 6	,
4 5 6 7 8 9	Ť	(WHEREUPON, THE DEPOSITION WAS CONCLUDED AT 12:38 P.M.)
9	8	
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. ;	1	INSTRUCTIONS TO WITHESS:	El 3		POR THE MIXMLE DISTI	RECT OF FEMBEYSVANIA
1 1	1	Please read carefully the following Witness Certificates	Πŧ	2	CIVIL ACTION M	], 4:D4-2V-2688
1:	-	and then sign and date the appropriate certificate.	5	3		
1 :	,	Do NOT sign both of them:	6		TANNY J. KITEMILLER:	ı
1 4	3	bd MAI Sign Octa of Cack.	Πi	4	BRYAN REHM, CHRISTY REHM;	ı
1 .		IF YOU MADE CORRECTIONS, SIGN CERTIFICATE (A):	8	_	DEBORAH P. FERINORE;	MUDNZABA
1 :	5	CERTIFICATE OF WITNESS (A)	و ا	5	JOEL 2. LIZB: STEVEN STOUGH; )	ı <sup>*</sup>
1,3	,	I. a witness	10	. *	BETH A EVELAND: CYNTHIA	10
10	2	in the above-entitled action, do hereby certify that I have	ii	б	SMEATH; JULIE SMITH;	ı
11	r	reviewed the transcript of my deposition and have attached	12	-	ARALESE D. CALLAHAN	реросттои
12	8	corrections to the same, along with the reason for each	13	,	BARR(E'); FREDERICA B.	
	- 10	correction.	114		CALLAHAN,	0.8
14		Signed this day of, 2005.	15	а		
15	11	21 gased (1618, 44831	16	•		WARREN
16	12		17	9	Plaintiffs.	
17	13	(MARREN A. HORD, PH.D.)	1120	-		λ.
13	13	(4White u. 100m) 11-6-1	19	10	٧\$.	}
19	14	IF YOU BID NOT MAKE CORRECTIONS, SIGN CERTIFICATE (8):	20			NORD,
21	15	The John with Market Courtmentains! Once committees a late.	21	11	DOVER AREA SCHOOL DISTRICT;	)
22	13	CERTIFICATE OF WITHESS (6)	22		DOVER ARBA SCHOOL BISTRICT	PH.D.
23	16	COMPLETE OF HILPSON (O)	23	12	BOARD OF DIRECTORS.	)
24	10	I, a witness	24			)
	17	1,	25	13		)
25 26	17	in the above-entitled action, do hereby certify that I have			Defendants.	· .
27	38	IN CHE SUCKE SECTOR OF SUCKEY, OR DESCRIPTION OF THE PARTY OF THE PART	27	14	Defendants.	
2B	18	reviewed the transcript of my deposition and have made no	2B	15	PAGE LENE SHOUL	LD READ REASON FOR CHANGE
29	19	Terresed one contractibe of all achometers and make make no	29	16		
30	17	corrections to the transcription.	30	17		
31	29		31	18		
32		Signed this lay of, 2005.	32	19		
33	21		33	30	Signed this the day of	, 2005.
34	22	(MARRIN A. MORD, PR.D.)	34	21	<del></del>	
35	23	, <u></u>	35	22		
36		rrl: (6-7-2005)	36	23		(WARREW A. NORD, PH.D.)
1"	-1	## : IT!	37	24	rrl: (6-7-2005)	
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2	1	STATE OF WORTH CAROLINA -146-	1	Wagren A.	Nord, Ph.D.		-1-
3		COLENTY OF DURKAN	2		Y X A M I N A T I C N	1 N D B X	
4	2	CERTIP!CATE	] 3	Bxaminati	on By Whom		Page No.
5		I, Rebecca R. LeClair, CVR, a Motary Public in and	4	Direct	Wilcox		- 4
6	3	for the State of North Carolina, duly commissioned and	5				
7		authorized to administer oaths and to take and certify	ءَ ا				1
8	4	depositions, do hereby certify that on June 7th, 2005,	1				
9		WARRED A. MORD, PH.D., being by me duly sworm to tell the	li ʻ				
10	5	truth, thereupon testified as above set forth as found in	8				
lii	4	the preceding 145 pages, his examination being reported by	9				
12	6	me verbatin and them reduced to typewritten form under my	.] 10				
13	•	direct supervision; that the foregoing is a true and	11				
114	7	correct transcript of said proceedings to the best of my	12				
15		ability and understanding, that I am not related to any of	13		·		
16	8		14				
17	, ,	outcome of this case; that I am not of counsel nor in the	15				
118	10		16				
119	11		17				
120	12	in WITHESS MERREOF, I have hereto set my hand and					
21	13	affixed my official motarial seal, this the 28th day of	18				
22	14	June, 2005.	19				
23	15	oute, area	20				
24	16	Motary Public	21				
25	17	My Commission Expires 03/04/2006	22				
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30		910/633-2926 (FayetteVille)	ł				
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